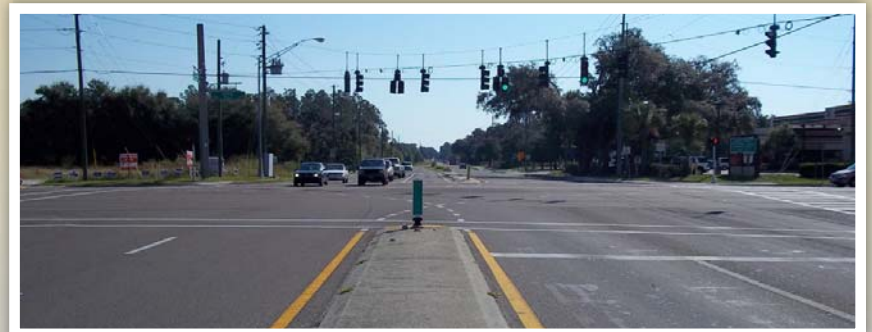


INTERSECTION IMPROVEMENTS REPORT FOR LITTLE ROAD AT MASSACHUSETTS AVENUE AND DECUBELLIS ROAD

(PROJECT NO. C-10032.00) | AUGUST 2011



Prepared for:

Pasco County Department of
Engineering Services
Project Management Division
West Pasco Government Center
7530 Little Road, Suite 320
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20077150-012

Prepared by:

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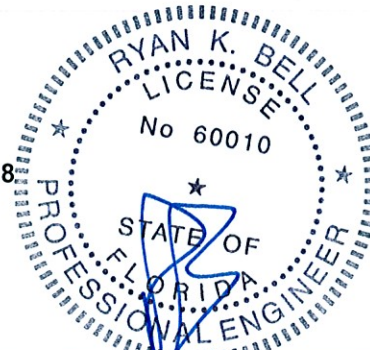


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8/29/11
Date

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EXECUTIVE SUMMARY

This Intersection Improvement Report was prepared for Pasco County in order to document the review and analysis of various alternatives for the improvement of Little Road (CR 1) at Massachusetts Avenue and Decubellis Road. This project was included in the 2011/2015 Fiscal Year (FY) County Capital Improvement Plan (CIP) as part of the Penny for Pasco (PFP) Sales Tax program approved in August 2010. The intersection is also referenced in the Needs Plan of Pasco County Metropolitan Planning Organization (MPO) 2035 Long Range Transportation Plan (LRTP) as the western terminus of the four-laning of Decubellis Road from Little Road to Starkey Boulevard, and listed as a 2016-2020 improvement in the Cost Affordable Plan. This report was prepared for the Pasco County Engineering Services Department to analyze proposed intersection safety improvement alternatives. The analysis focuses on five primary factors: long range planning, safety, environmental concerns, right-of-way acquisition and costs as well as other relevant factors.

Three build alternatives and a no-build alternative are evaluated in this report. The alternatives are described as follows:

Alternative 1

Alternative 1 includes the following improvements:

- The addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue.
- The addition of a westbound right-turn from Decubellis Road onto Little Road.
- Restriping the Massachusetts Avenue eastbound approach to provide dual left-turn lanes onto Little Road. The restriping plan will reduce the total number of through lanes on Massachusetts Avenue from two to one shared through right.

This alternative results in the least expensive configuration with the most flexibility for future improvements, and requires the same right-of-way as Alternative 2 and less than Alternative 3 (see Exhibit A).

Alternative 2

Alternative 2 includes the following improvements:

- The addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue.
- The addition of a westbound right-turn from Decubellis Road onto Little Road.
- Restriping Massachusetts Avenue eastbound approach to include dual left-turn lanes, and an eastbound dedicated through lane.



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- The addition of a right-turn lane from Massachusetts Avenue onto Little Road in lieu of the shared through right proposed in Alternative 1 (see Exhibit B).

Alternative 3

In Alternative 3, the proposed improvements will include intersection realignment and widening to the north to accommodate the future widening of Decubellis Road. Similar to Alternative 1, this alternative includes:

- The addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue.
- The addition of a westbound right-turn from Decubellis Road onto Little Road.
- Eastbound dual left-turn lanes from Massachusetts Avenue onto Little Road.

No modification to the eastbound through and shared through right approach lanes on Massachusetts Avenue are proposed in this alternative (see Exhibit C).

Alternative 4 (No-Build)

The No-Build Alternative does not provide for any improvements to the Little Road at Massachusetts Avenue and Decubellis Road intersection (see Exhibit D).

Recommendations

Alternative 1 will satisfy the long-range planning requirements of Pasco County. Alternative 1 will improve safety and address safety concerns at the intersection. Alternative 1 will not adversely affect the environment at the intersection. Alternative 1 will require reduced permitting time and effort. Alternative 1 will affect the fewest parcels and require the least property of the Build Alternatives at the least cost.

Based on the review and analysis of the alternatives and all relevant factors, Alternative 1 is considered the preferred alternative. Therefore, this Little Road at Massachusetts Avenue and Decubellis Road Intersection Improvement Report and the preferred Alternative 1 are presented to the Pasco County Board of County Commissioners and recommended for approval.



1.0 INTRODUCTION

This intersection improvement study will examine three build alternatives and a no-build alternative for the intersection of Little Road at Massachusetts Avenue and Decubellis Road. The intersection is located in western Pasco County (Section 35, Township 25S, Range 16E and Section 2, Township 26S, Range 16E). The project location is depicted in Figure 1-1 below. The area surrounding the intersection is comprised of C2, AC, C1, R4 zoned properties (see Exhibit E-1) with future land use designations of ROR, RES-3, RES-6 and RES-9 (see Exhibit E-2).

A public workshop for the Little Road at Massachusetts Avenue and Decubellis Road intersection improvements was held on Wednesday, June 22, 2011 at the West Pasco County Government Center. The Government Center is located at 7530 Little Road, New Port Richey, Florida 34654.



Figure 1-1: Project Location Map



2.0 EXISTING CONDITIONS

Little Road (CR 1) is a 16.10 mile long north-south arterial roadway which begins at Trinity Boulevard and extends north to US 19. Within the limits of the intersection study, Little Road consists of a six-lane urban typical section with closed drainage, a 20-foot median and sidewalks on both sides of the road. The existing right-of-way along Little Road within the area of study varies from 120-feet to 132-feet.

Massachusetts Avenue is a 2.81 mile long east-west collector roadway which begins at Grand Boulevard (CR 595) and extends east to Little Road and comprises the western leg of the subject intersection. Massachusetts Avenue consists of a four-lane urban typical section with closed drainage, a 20-foot median and sidewalks on both sides of the road. The existing right-of-way along Massachusetts Avenue within the area of study varies from 100-feet to 120-feet.

Decubellis Road is a 3.50 mile long east-west collector roadway which begins at Little Road and extends east to Ridge Road (CR 524) and comprises the eastern leg of the subject intersection. At this intersection, Decubellis Road consists of a four-lane urban typical section with closed drainage, a 20-foot median and sidewalks on both sides of the road. Approximately 1,000-feet east of the intersection with a sidewalk (multi-use path) on the south side of the road only, Decubellis Road transitions to a two-lane undivided roadway. The existing right-of-way along Decubellis Road within the area of study varies from 100-feet to 110-feet.

The intersection is currently signalized with a southwest to northeast span wire/strain pole configuration. The existing turning movements are summarized in Figure 2-1.

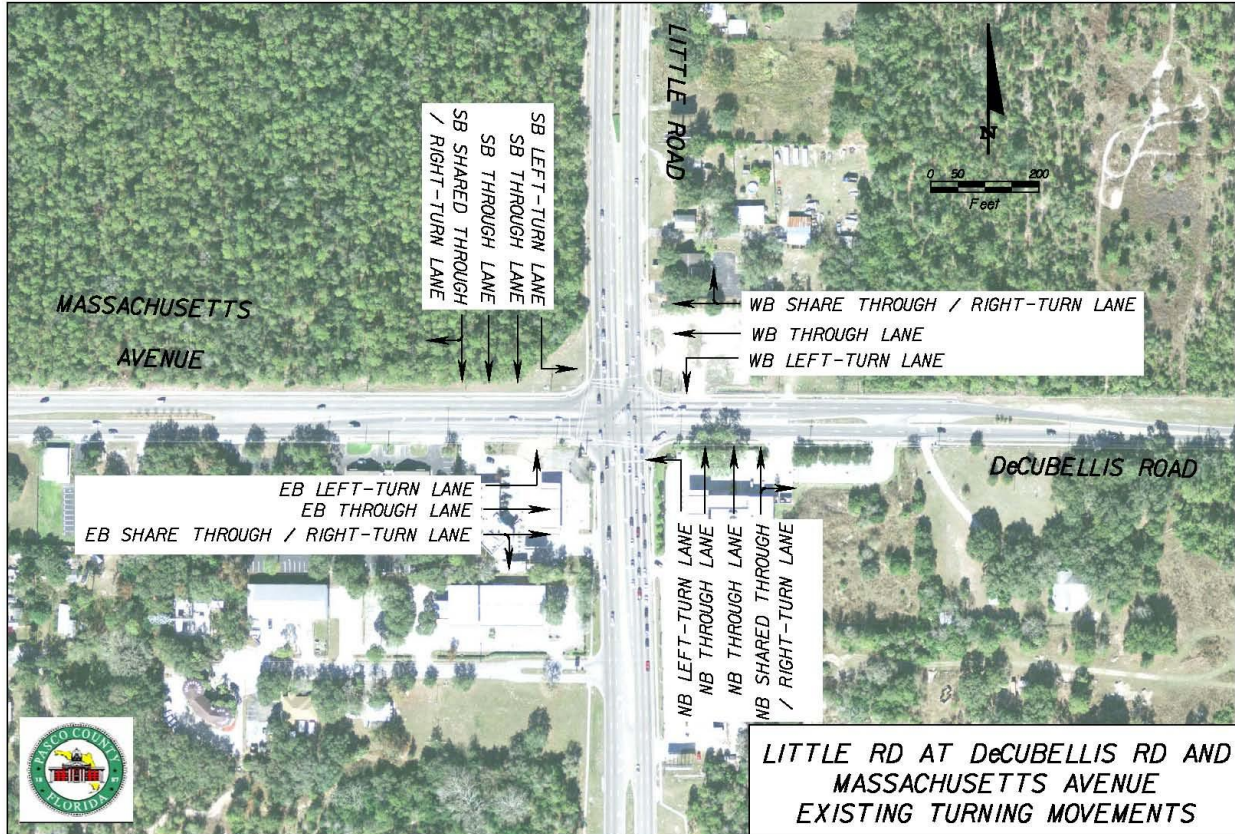


Figure 2-1: Existing Intersection Turning Movements at Little Road at Massachusetts Avenue and Decubellis Road

3.0 EXISTING DRAINAGE CONDITIONS

The study intersection falls within the Pithlachascotee Watershed. The limits of the study fall within the Federal Emergency Management Administration (FEMA) Flood Zone X (see Exhibit F).

The majority of the intersection is drained via closed drainage system with curb and gutter, curb inlets and culverts providing runoff collection. There is one portion of open swale collection along the north side of Decubellis Road leading up to the intersection. The intersection will continue to drain in similar fashion under all three build alternatives and should have negligible impact on the offsite drainage.

Along the southwest corner of the intersection, there is an existing detention facility located within the gas station property. In order to avoid impacting this detention facility, the eastbound right-turn lane proposed in Alternative 2 will require a 50-foot maximum curb return radius to avoid encroachment on the facility.

Alternative 1 and Alternative 2 should be exempt from stormwater permitting as the Southwest Florida Water Management District (SWFWMD) allows exemptions for the addition of turn



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lanes less than ¼ mile in length. Alternative 3 may require an Environmental Resource Permit (ERP) through SWFWMD as it may be construed as adding capacity and pollutant loading to the system. A formal determination will need to be made at the pre-application meeting with SWFWMD prior to design.

4.0 EXISTING UTILITIES

Field inspections revealed overhead power lines presently run along the northern and southern rights-of-ways of Massachusetts Avenue and Decubellis Road, and extend through the intersection along the eastern right-of-way of Little Road. In addition, water valves indicate a water main is located along the south side of Massachusetts Avenue and the west side of Little Road. A reuse main was also located along the south side of Massachusetts Avenue west of the intersection. Fiber optic cables from Verizon, formerly General Telephone and Electric (GTE), were located along the east and west side of Little Road north of the intersection. The following above ground appurtenances were identified during the May 27, 2011 site visit and are listed below:

- Pasco County Traffic Controllers
- Pedestrian Crossing Signals
- Verizon Pull Boxes
- Storm Structures including Curb Inlets and a Detention Area
- A GTE Underground Junction Box
- Traffic Signal Box
- Light Poles
- Various Signage

Sunshine One has mentioned that the following agencies may have utilities within the intersection:

- Bright House Networks
- Progress Energy
- Verizon Florida, Inc.
- Level 3 Communications
- City of New Port Richey
- Pasco County Traffic Operations
- Pasco County Utilities
- Withlacoochee River Electric Cooperative



Depending on which alternative is selected, coordination will be necessary with some or all of the utility owners during the design process to avoid or minimize conflicts, delays and/or service disruptions.

5.0 TRAFFIC ANALYSIS

Turning movement counts collected on February 15, 2011 from 8:00 a.m. to 9:00 a.m. and from 2:00 p.m. to 3:00 p.m. were provided by Pasco County to serve as the base traffic conditions for the intersection of Little Road at Massachusetts Avenue and Decubellis Road traffic analysis. Directional 24-hour volume counts were also provided for each leg of the intersection (see Appendix A).

Base traffic models were developed with Synchro 7 Traffic Modeling Software for the a.m. and p.m. peak hours, from the directional volume count and turning movement count data. The base traffic models include turning distributions and the corresponding peak hour factor (PHF) calculated from the turning movement counts on each approach. Existing intersection signal timings were provided by Pasco County and are used in the base models (see Appendix B). A comparison of roadway segment Annual Average Daily Traffic (AADT) projections from the 2035 LRTP to the current intersection approach directional volumes was conducted. Linear growth rates were applied to each intersection approach to establish projected distributions and a.m. and p.m. peak hour traffic models were developed for 2016 and 2035 traffic projections. The base and projected traffic distributions are provided in Figure 5-1 and Figure 5-2. The primary intent of this analysis was to identify existing and projected intersection approach delay and estimate the potential reduction in delay which could result from each intersection alternative. A summary of the resulting delay and queuing analysis for each intersection approach is provided in Appendix C.

The results for Little Road at Massachusetts Avenue and Decubellis Road are summarized below:

Current Year (2011) - Analysis suggests that the intersection is currently experiencing between 60.8 (second/vehicle) to 80.7 (seconds/vehicle) overall delay during peak periods of the day. In general, all alternatives provide proposed improvements, which include the addition of eastbound dual left-turn lanes, a westbound right-turn lane, and a southbound right-turn lane. These improvements are estimated to reduce the overall intersection delay by 26.4 (seconds/vehicle) to 34.7 (seconds/vehicle) delays during peak periods. The primary difference between Alternative 1 and Alternative 2 is the addition of an eastbound right-turn lane in lieu of a share right through configuration. This improvement provides an estimated reduction between 5.0 (seconds/vehicle) to 13.8 (seconds/vehicle) on the eastbound approach. In the short term, Alternative 3 offers only minor differences in delay reduction when compared to Alternative 1 and Alternative 2, as the excessive approach delays are being addressed in all alternatives.



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Five-Year Projected (2016) - Future traffic will likely continue to increase with an overall delay during peak periods of the day estimated between 87.0 (seconds/vehicle) to 173.6 (seconds/vehicle) if no improvements are made. The addition of eastbound dual left-turn lanes, a westbound right-turn lane, and a southbound right-turn lane is estimated to reduce the overall intersection delay by 37.2 (seconds/vehicle) to 104.1 (seconds/vehicle) during peak periods. If estimated high traffic growth to the east of the intersection begins to occur, the eastbound and westbound approaches will likely begin to experience excessive delay in Alternative 1 and Alternative 2.

Long Range Projected (2035) - Future traffic will likely continue to increase with an overall delay during peak periods of the day estimated between 741.1 (seconds/vehicle) to 755.8 (seconds/vehicle) if no improvements are made. Please note the long range projections are for informational purposes only and highly contingent on assumed growth to the east of the intersection. No guarantee can be made to the accuracy of these estimations. At this time the four-laning of Decubellis Road from Little Road to Starkey Boulevard will have likely occurred and would include the all improvements depicted in Alternative 3.



INTERSECTION IMPROVEMENTS REPORT FOR LITTLE ROAD AT MASSACHUSETTS AVENUE AND DECUBELLIS ROAD

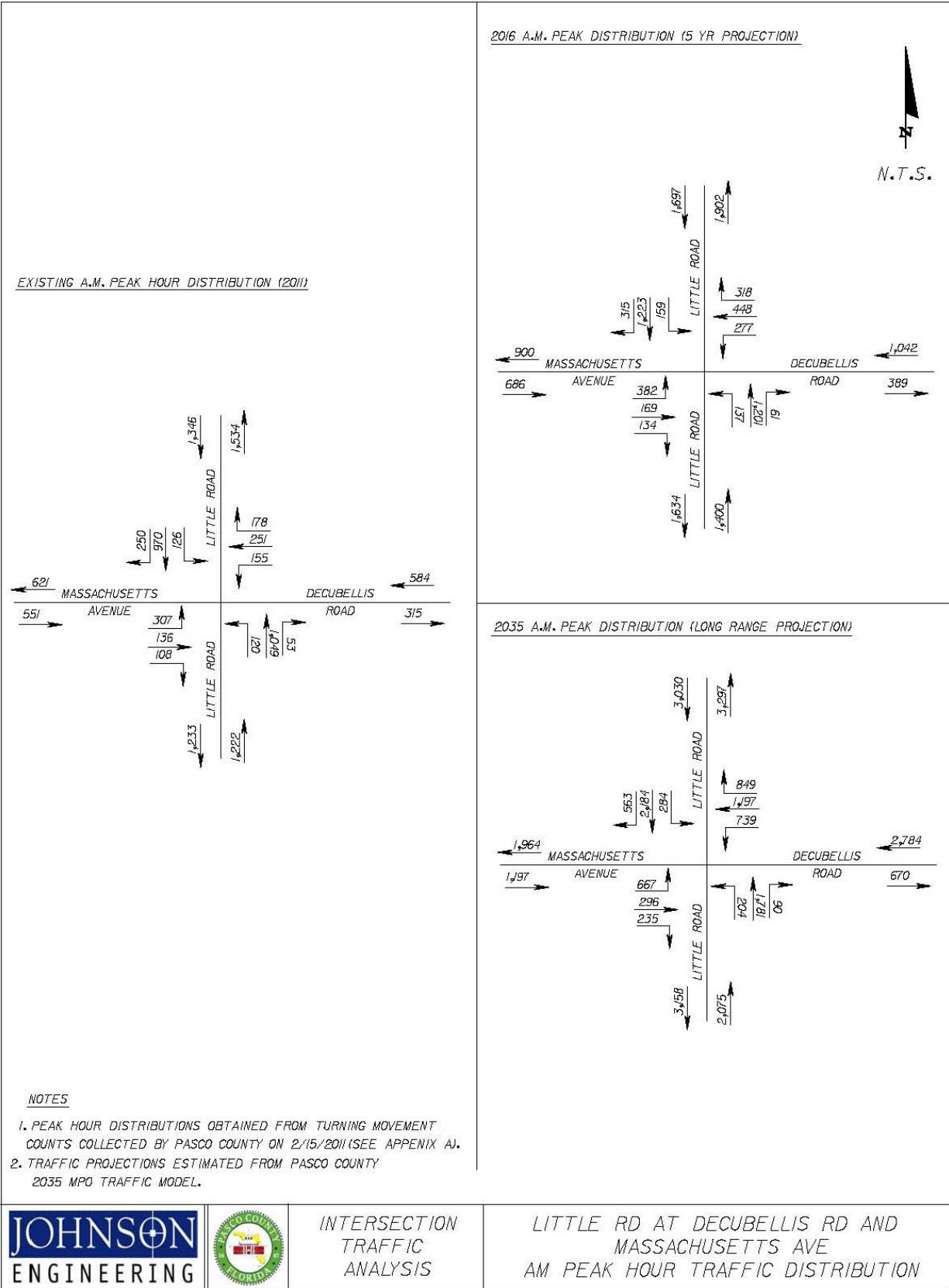


Figure 5-1: A.M. Peak Hour Traffic Distribution



INTERSECTION IMPROVEMENTS REPORT FOR LITTLE ROAD AT MASSACHUSETTS AVENUE AND DECUBELLIS ROAD

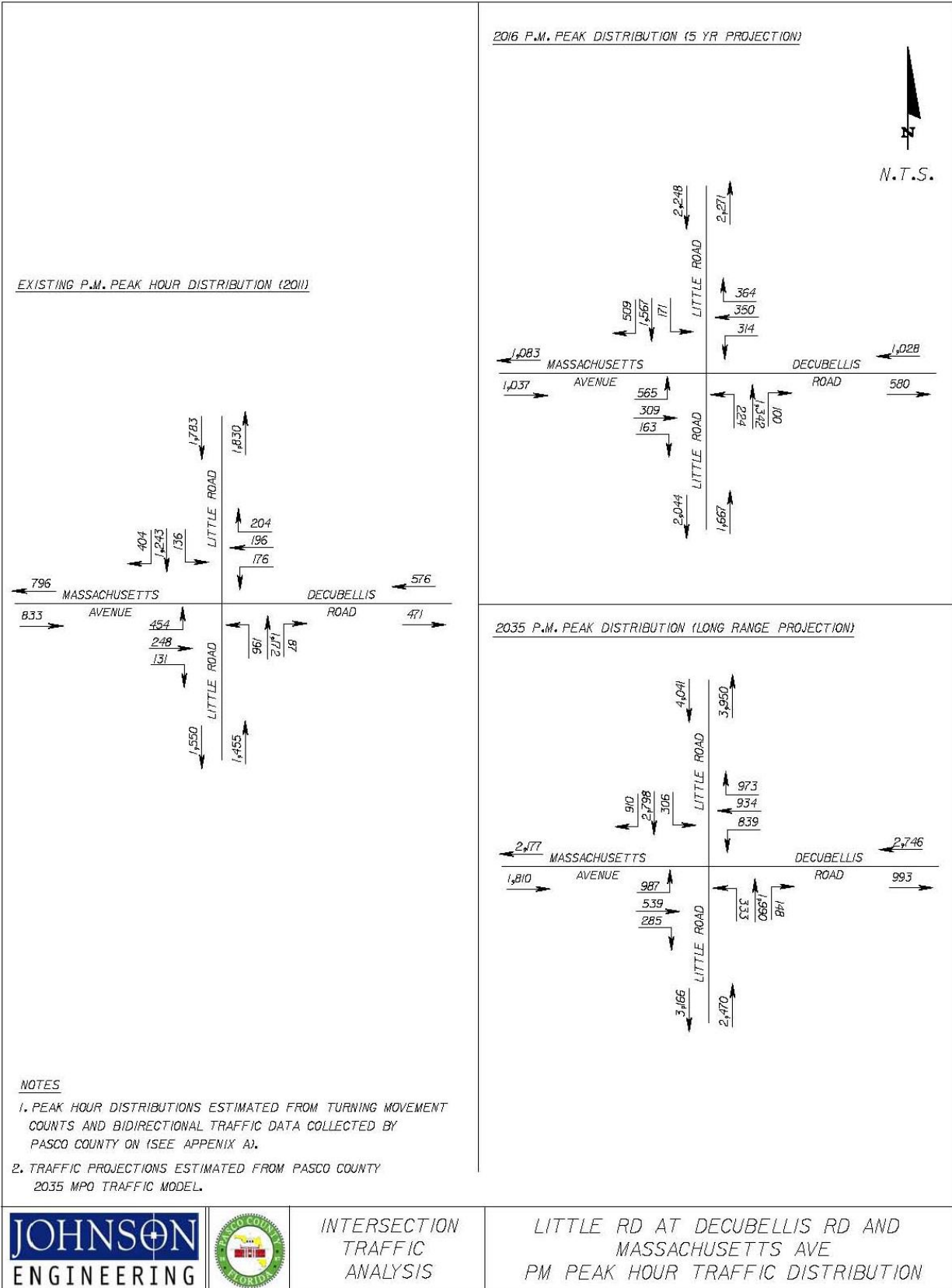


Figure 5-2: P.M. Peak Hour Traffic Distribution



6.0 LONG RANGE PLANNING

The Little Road at Massachusetts Avenue and Decubellis Road intersection Penny for Pasco (PFP) improvements are included in the 2011/2015 Fiscal Year (FY) County Capital Improvement Plan (CIP). Long range improvements for this intersection are referenced in the Needs Plan of the 2035 LRTP, as the western terminus of the four-laning of Decubellis Road from Little Road to Starkey Boulevard. This project is depicted on Map 3-1-1a - Cost Affordable 2015-2025 Roadway Improvements in the 2035 LRTP and listed as a 2016-2020 improvement in the Cost Affordable Plan roadway improvement. Based on the preliminary traffic modeling, Alternative 1 and Alternative 2 accommodate short-term traffic projections, but will not necessarily facilitate the 2035 LRTP. Alternative 3 accommodates both for the short-term and 2035 LRTP traffic projections, and accounts for the future easterly widening of Decubellis Road at Little Road.

Provided as interim intersection improvement options, Alternative 1 and Alternative 2 have been developed to provide short-term cost-effective improvements. While all three alternatives address safety issues presented in Section 7.0, these two alternatives place minimal emphasis on the planned future Decubellis Road widening. Alternative 3 provides the best accommodations for 2035 LRTP as this intersection alternative accounts for the future easterly widening of Decubellis Road. The No-Build Alternative will not satisfy the long range planning needs.

7.0 SAFETY

In providing transportation facilities to the public, it is the responsibility of the state, county or municipality to do so while holding paramount the safety and general welfare of the traveling public. The existing intersection has several safety issues that should be addressed.

The first safety issue is with regards to the observed and reported overflow from the eastbound left-turn lane onto the through lanes on Massachusetts Avenue. This left-turn lane overflow can potentially increase through movement delay, increase the possibility for vehicular conflicts and adversely affects the operational performance of this approach. As a result, all three alternates have been developed to include additional storage capacity and a second left-turn lane on the intersections eastbound approach to help alleviate the potential for overflow and promote positive traffic flow.

The second safety issue is with the absence of exclusive right-turn lanes on each approach. The FHWA report titled Safety Effectiveness of Intersection Left- and Right-Turn Lanes, FHWA-RD-02-089, suggests the addition of right-turn lanes improves the overall safety of signalized intersections in urban areas and generally results in a net reduction in the number of collisions. To assess the need for potential right-turn lane improvements, traffic data provided by Pasco County was analyzed using Synchro 7 for current and projected traffic volumes (see Section 5.0



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and Appendix C). Findings conclude that all three alternatives will improve the operational efficiency and safety of the intersection.

Additionally, crash history data provided by Pasco County was evaluated as part of this safety assessment. From January 2007 to October 2010, there have been 96 crashes at or within 250-foot of the Little Road at Massachusetts Avenue and Decubellis Road intersection (see Appendix D). Of the 96 documented crashes, 78 were reported to either be rear-end, angle, or left-turn collisions. While it is uncertain how many of the reported collisions were caused by congestion and delay due to the absence of turn lanes or insufficient turn lane queue lengths, these types of collisions are typically associated with incidents involving a turning vehicle. All three build alternatives provide safety improvements in this regard with Alternative 3 providing the most safety benefit.

In addition to vehicular safety accommodations, it is important to ensure that the safety of pedestrian facilities be considered as part of these improvements. It is recommended that all sidewalks and curb ramps located within the chosen alternative project limits be properly evaluated in accordance with the Americans with Disabilities Act (ADA) as part of the design.

8.0 ENVIRONMENTAL

In review of the Phase I Environmental Assessment Report prepared by Universal Engineering Sciences, Inc. (see Appendix E); it was recommended that no further Environmental Reporting be performed at this time. It mentions there has been one historical gas station at the northeast corner of this intersection along with the two existing gas stations. Presently, one of these gas stations has outstanding violations. A letter has been issued by Pasco County to the gas station, stating that they must respond to the outstanding items by February 28, 2011 or it would be referred to FDEP. However, as of March 18, 2011 no releases were identified in reference to this facility.

A preliminary review of available information was conducted to assess the potential for protected species and jurisdictional wetlands involvement that may affect the future intersection improvements. The assessment consisted of a review of the Natural Resources Conservation Service (NRCS) Soil Survey for Pasco County, United States Geological Survey (USGS) Quadrangle Maps, historic and current (2009) aerial photography, and information contained in the March 2011 Phase I Environmental Assessment Report, prepared by others.

The intersection and surrounding area is generally comprised of urbanized land, interspersed with forested and herbaceous undeveloped land, which appear to have been historically used for crop production and a former gas station site. Based on the presence of suitable habitat in the undeveloped areas adjacent to the right-of-way, the potential exists that these areas may be used for foraging, burrowing, denning or nesting by state and federal protected species, such as the



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gopher tortoise, eastern indigo snake and Sherman's fox squirrel. Potential use by these species, if any, is likely limited by the urbanized nature of the intersection. Two potentially occupied gopher tortoise burrows were observed in close proximity to the proposed intersection improvements. Prior to future construction activities, a protected species survey will need to be conducted to verify absence or presence of listed species within the project limits.

Review of the USGS Quadrangle Map and NRCS Soil Survey of the project area were conducted to assess the potential for wetlands to occur in the project area. Tavares Sand is listed as the soil occurring within the project area. This soil type, described as moderately well drained with an average depth to water table of 42- to 72-inches below ground, is not typically associated with wetland habitats. The USGS Quadrangle Map does not appear to identify wetlands in the project area.

A site visit of the project area was conducted by a Johnson Engineering ecologist on July 8, 2011 to evaluate the potential presence or absence of wetlands in the project area. Observations made during the site visit indicate the project area contains a dominance of non-hydrophytic (upland) vegetation. No evidence of wetland hydrology, such as water stained leaves, adventitious rooting or water marks, were noted during the site visit. Further, no evidence of hydric soil indicators were noted within the proposed intersection improvements. Soil conditions appear to have been disturbed as a result of historic agricultural (citrus) activities and deposition of fill material associated with the roadway. Based on the dominance of upland vegetation and lack of evidence of wetland hydrology or hydric soils, the proposed intersection improvements do not appear to contain state and federal jurisdictional wetlands. This assessment is subject to agency verification, as the ultimate determination of federal and state wetland jurisdiction in this area is regulated by the U.S. Army Corps of Engineers and Southwest Florida Water Management District (SWFWMD), respectively.

9.0 DESIGN CRITERIA

Based on the traffic analysis and meetings with Pasco County staff, the following recommended design elements will be used for the Little Road at Massachusetts Avenue and Decubellis Road intersection improvements.

The typical section for proposed turn lane additions on all intersection approaches will include 12-foot lanes with abutting Type F curb and gutter. The design speed on Little Road, Decubellis Road, and Massachusetts Avenue is 45 mph. Specific design criteria shall be based on the design parameters listed in Table 9-1.



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Table 9-1: Design Criteria

Design Element	Value Designation
Design Vehicle	Single Unit Bus
Lane Width	12-feet
Design Speed	45 mph
Left-Turn Radii	75-feet (min.)
Right-Turn Radii	50-feet (min.)

It is also recommended the sidewalks and curb ramps at all four quadrants of the intersection be assessed for ADA compliance and if found deficient, be replaced to conform to current ADA standards.

It appears that Alternative 1 and Alternative 2 would qualify for a SWFWMD permit exemption for intersection improvements intended as safety upgrades per FAC 40D-4.051(12). Therefore, only Best Management Practices (BMP's) would be necessary to satisfy the SWFWMD permitting requirements. It is not anticipated that offsite stormwater ponds will be required for Alternative 1 and Alternative 2. These assumptions will be confirmed during the design/permitting phase of this project.

The extent of improvements proposed in Alternative 3 may exceed the threshold for a safety upgrade classification consideration per FAC 40D-4.051(12). Based on this, the need for additional stormwater treatment facilities is possible. This will need to be verified and extent determined during the design/permitting process.

A turn lane analysis was conducted using Synchro 7 Modeling Software for year 2011, 2016 and 2035 (see Appendix C). A summary of the recommended turn lane lengths is provided in Table 9-2. Please note that due to existing physical constraints, turn lane total lengths may have been reduced to accommodate existing conditions.



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Table 9-2: Recommended Turn Lane Lengths

Direction	Existing Total Turn Lane Length (ft.)	Alternative 1			Alternative 2			Alternative 3			Comments
		Taper (ft.)	Turn Lane (ft.)	Queue Length (ft.)	Taper (ft.)	Turn Lane (ft.)	Queue Length (ft.)	Taper (ft.)	Turn Lane (ft.)	Queue Length (ft.)	
SB Left-Turn Lane	475	—	—	—	—	—	—	—	—	—	No modifications are recommended. Turn lane length is sufficient through 2016. It is recommended that turn lane queue length be re-evaluated during the Decubellis Road four laning project.
SB Right-Turn Lane	—	50	135	100	50	135	100	50	135	100	Through lane queue exceeds right- turn lane queue. 100 ft. queue length has been provided.
EB Left-Turn Lane	475	—	—	—	—	—	—	—	—	—	For Alt. 1 and Alt 2, Massachusetts Avenue current northern most through lane becomes an additional left-turn lane. Alt. 3 Turn Lane Length is due to physical constraints.
EB Right-Turn Lane	—	50	135	—	50	135	—	50	135	—	Turn lane length is limited due to existing physical constraints.
NB Left-Turn Lane	380	—	—	—	—	—	—	—	—	—	Existing turn lane is physically constrained. Widening the turn lane will require widening Little Road to the South. No improvements are recommended at this time.
NB Right-Turn Lane	—	—	—	—	—	—	—	—	—	—	No improvements recommended.
WB Left-Turn Lane(s)	350	—	—	—	—	—	—	100	135	240	No modifications are recommended. It is recommended that turn lane queue length be re-evaluated during the Decubellis Road four laning project.
WB Right-Turn Lane	—	50	110	—	50	110	—	50	110	—	Turn Lane Length is limited due to existing physical constraints.



10.0 ALTERNATIVE IMPROVEMENTS

Three separate build alternatives and a no-build alternative were evaluated. All build alternatives include the addition of a southbound right-turn from Little Road onto Massachusetts Avenue, eastbound dual left-turn lanes from Massachusetts Avenue to Little Road and a westbound right-turn lane from Decubellis Road onto Little Road. A brief description and discussion of each alternative is listed below. Each alternative is graphically depicted in Exhibits A, B, C and D.

Alternative 1

This alternative includes the addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue and a westbound right-turn lane from Decubellis Road onto Little Road. This alternative also includes restriping the Massachusetts Avenue eastbound approach to provide dual left-turn lanes onto Little Road. The restriping plan will reduce the total number of through lanes on Massachusetts Avenue from two to one shared through right. This alternative results in the least costly configuration with the most flexibility for future improvements, and requires less right-of-way than the other alternatives. All lanes will be 12-foot wide. (See Exhibit A.)

- Long Range Planning - Provides additional intersection capacity and a reduction in approach delay for future traffic on the southbound, eastbound, and westbound approaches through the addition of turn lanes. However, this alternative does not facilitate the 2035 LRTP, as the alternative does not include intersection widening to the north for the Decubellis Road future four-laning.
- Safety - Provides for a safer intersection than existing configuration.
- Environmental Concerns - Minimal environmental impacts expected.
- Right-of-Way Acquisition - Requires the same right-of-way acquisition as Alternative 2. Right-of-way acquisition is estimated to include approximately 4,264 square feet of land, impacting 1 parcel.
- Cost - Least expensive of the alternatives at approximately \$691,603.

Alternative 2

Similar to Alternative 1, Alternative 2 also consists of the addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue, a westbound right-turn from Decubellis Road onto Little Road and restriping Massachusetts Avenue eastbound approach to include dual left-turn lanes. This alternative introduces an eastbound dedicated through and the addition of a right-turn lane from Massachusetts Avenue onto Little Road in lieu of the share through right proposed in Alternative 1 (see Exhibit B).

- Long Range Planning - Provides additional intersection capacity and a reduction in approach delay for future traffic on the southbound, eastbound, and westbound



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approaches through the addition of turn lanes. However, this alternative does not facilitate the 2035 LRTP, as the alternative does not include intersection widening to the north for the Decubellis Road future four-laning.

- Safety - Provides for a safer intersection than existing configuration.
- Environmental Concerns - Minimal environmental impacts expected.
- Right-of-Way Acquisition - Requires the same right-of-way acquisition as Alternative 1. Right-of-way acquisition is estimated to include approximately 4,264 square feet of land, impacting 1 parcel.
- Cost - Second least costly of the alternatives at approximately \$788,316.

Alternative 3

The proposed improvements will include intersection realignment and widening to the north to accommodate the future widening of Decubellis Road. Similar to Alternative 1 and Alternative 2, this alternative includes the addition of a southbound right-turn lane from Little Road onto Massachusetts Avenue, a westbound right-turn from Decubellis Road onto Little Road, and eastbound dual left-turn lanes from Massachusetts Avenue onto Little Road. No modification to the eastbound through and shared through right approach lanes on Massachusetts Avenue are being proposed in this scenario (see Exhibit C).

- Long Range Planning - Provides additional intersection capacity and a reduction in approach delay for future traffic growth which is anticipated to occur east of the intersection. This alternative includes the necessary intersection widening to facilitate the future four-laning of Decubellis Road from Little Road to Starkey Boulevard. The Decubellis Road widening is a project which is currently included as part of the 2035 LRTP.
- Safety - Provides for the safest intersection configuration.
- Environmental Concerns - Minimal environmental impacts expected.
- Right-of-Way Acquisition - Requires the most amount of right-of-way acquisition at approximately 10,518 square feet of land, impacting 4 parcels.
- Cost - The most costly of the alternatives at approximately \$1,659,651.

Alternative 4 (No-Build)

The No-Build Alternative does not provide for any improvements at the Little Road at Massachusetts Avenue and Decubellis Road intersection (see Exhibit D).

- Long Range Planning - Does not address any long range planning needs.
- Safety - Does not provide safety improvement.
- Environmental Concerns - No environmental impacts.
- Right-of-Way Acquisition - No right-of-way acquisition required.
- Cost - No costs are associated with this alternative.



11.0 RIGHT-OF-WAY

The amount of additional right-of-way needed for each of the alternatives is shown on the Alternative Exhibits A, B and C. A summary of the properties in question and amount of property needed is summarized in Table 11-1 below.

Table 11-1: Right-of-Way Requirements Table

Parcel No.	Build Alternative 1	Build Alternative 2	Build Alternative 3
1	4,264 ft ²	4,264 ft ²	4,264 ft ²
2	-	-	2,407 ft ²
3	-	-	1,794 ft ²
4	-	-	2,053 ft ²
5	-	-	-
6	-	-	-
0	4,264	4,264	10,518
TOTAL (ac)	0.098	0.098	0.241

12.0 ALTERNATIVE COSTS

Preliminary Estimates of Costs for Each Alternative are summarized in Table 12-1. Costs are broken down into five categories: Design/Permitting, Right-of-Way, Roadway Construction, Administration/Construction Engineering and Inspection (CEI) and Traffic Signal and Street Lighting Modifications. Design/Permitting costs are rough estimates. The cost estimates are based upon costs from similar construction projects at the time this report was prepared. Supporting documentation of cost analysis is provided in Appendix G.

The right-of-way costs were estimated by Pasco County based on County experience and industry standard estimation practices (see Appendix F).

Table 12-1: Intersection Alternative Cost Analysis

Item	Build Alternative 1	Build Alternative 2	Build Alternative 3
Design/Permitting	\$77,747	\$90,266	\$182,862
Right-of-Way*	\$91,752	\$91,752	\$214,477
Roadway Construction	\$105,987	\$153,565	\$526,448
Administration/CEI**	\$72,796	\$87,570	\$198,934
Traffic Signal and Street Lighting Modifications	\$205,000	\$207,500	\$205,000
Contingency (25%)	\$138,321	\$157,663	\$331,930
Total	\$691,603	\$788,316	\$1,659,651

*Right-of-Way costs represent land costs only and do not include costs related to eminent domain proceedings, such as appraisals, legal fees, real estate transaction fees, etc. These fees are included in Appendix F.

**Assumed 30% of Construction.



13.0 EVALUATION MATRIX SUMMARY

Table 13-1: Evaluation Matrix Summary - Intersection of Little Road at Massachusetts Avenue and Decubellis Road

Build Alternatives	Long Range Plan*	Safety**	Environmental Impacts***	ROW		Total Alternative Costs
				Parcels Impacted	Total Area (Ac)	
Alternative 1	Moderate	Moderate	Low	1	0.098	\$691,603
Alternative 2	Moderate	Moderate	Low	1	0.098	\$788,316
Alternative 3	High	High	Low	4	0.241	\$1,659,651
No Build	Low	Low	None	0	0.000	\$-0-

*Long Range Plan - "High" indicates strong correlation with Long Range Planning with maximum benefit. "Low" indicates little Long Range Planning benefit.

**Safety - "High" indicates maximum safety benefit. "Low" indicates little to no added safety benefits.

***Environmental Impacts - "High" indicates substantial impacts to the existing environment. "Low" indicates little to no environmental impacts.



14.0 PUBLIC COMMENT

A public workshop was held on Wednesday, June 22, 2011 at the West Pasco County Government Center in New Port Richey, Florida from 5:00 p.m. to 7:00 p.m. The purpose of the meeting was to inform interested parties of the proposed alternative improvements and evaluation criteria for the Little Road at Massachusetts Avenue and Decubellis Road intersection and receive the public's input and comments. In addition to the public, the meeting was attended by Pasco County staff and Johnson Engineering. Approximately 4 individuals attended the meeting which included a brief presentation and a question and answer period.

Varying opinions were given and impacts discussed. The general consensus favored Alternative 1. The public meeting announcement publications are included in Appendix H. No written public comments were received during or after the meeting.

15.0 SUMMARY AND RECOMMENDATIONS

A summary of the factors used in the review and analysis of the three Build Alternatives and the No-Build Alternative for the Little Road at Massachusetts Avenue and Decubellis Road Intersection Improvement Project follows:

1) Long Range Planning

Although Alternative 3 would better accommodate the future four (4) lane widening of Decubellis Road, all Build Alternatives satisfy long-range traffic and planning requirements of the Pasco County Comprehensive Plan and Capital Improvement Program. Alternative 1 and Alternative 2 would also provide short-term cost effective improvements necessary at the intersection. The No-Build Alternative will not address the long-range planning needs of Pasco County.

2) Safety

All Build Alternatives will improve the safety of the intersection by increasing capacity and reducing delay on the southbound, eastbound and westbound approaches through the addition of turn lanes. The Build Alternatives would also address the two safety concerns at the intersection: eastbound left-turn lane overflow and right-turn capacity. Channelization will also be improved by the additional turn lanes, as well as signing and pavement marking. The No-Build Alternative will not provide any safety improvement at the intersection.

3) Environmental

There is suitable habitat adjacent to the intersection for state and federal protected species. Therefore, prior to construction a protected species survey should be conducted. No potential



INTERSECTION IMPROVEMENTS REPORT FOR LITTLE ROAD AT MASSACHUSETTS AVENUE AND DECUBELLIS ROAD

contamination sites were identified by the Level I Environmental Site Assessment. All Build Alternatives will have relatively minimal environmental impacts. Due to the minimal impact of Build Alternative 1 and Alternative 2, the permitting effort should be easier and take a shorter amount of time than Build Alternative 3.

4) Property Impacts

Alternatives 1 and 2 will require only one parcel for a total of 4,264 square feet. Alternative 3 will affect four parcels for a total of 10,518 square feet. The “No-Build” Alternative will not affect any parcels.

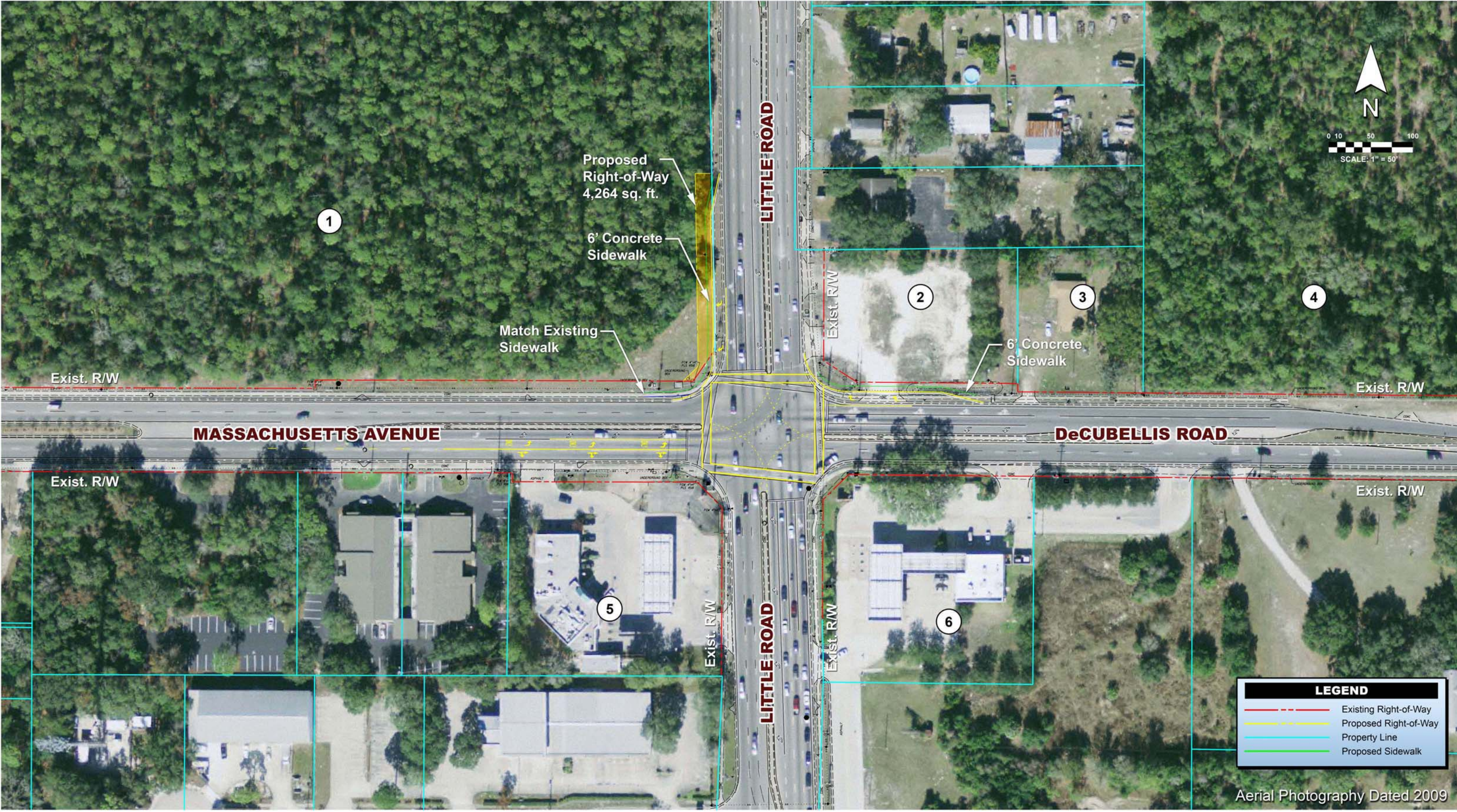
5) Cost

Alternative 1 is the least expensive Build Alternative at \$691,603. Alternative 2 would cost \$788,316; and, Build Alternative 3 would cost \$1,659,651. There would be no cost for the No-Build Alternative but, of course, there would also be no improvement.

Recommendation

Alternative 1 will satisfy the long-range planning requirements of Pasco County. Alternative 1 will improve safety and address safety concerns at the intersection. Alternative 1 will not adversely affect the environment at the intersection. Alternative 1 will require reduced permitting time and effort. Alternative 1 will affect the fewest parcels and require the least property of the Build Alternatives at the least cost.

Based on the review and analysis of the alternatives and all relevant factors, Alternative 1 is considered the preferred alternative. Therefore, this Little Road at Massachusetts Avenue and Decubellis Road Intersection Improvement Report and the preferred Alternative 1 are presented to the Pasco County Board of County Commissioners and recommended for approval.

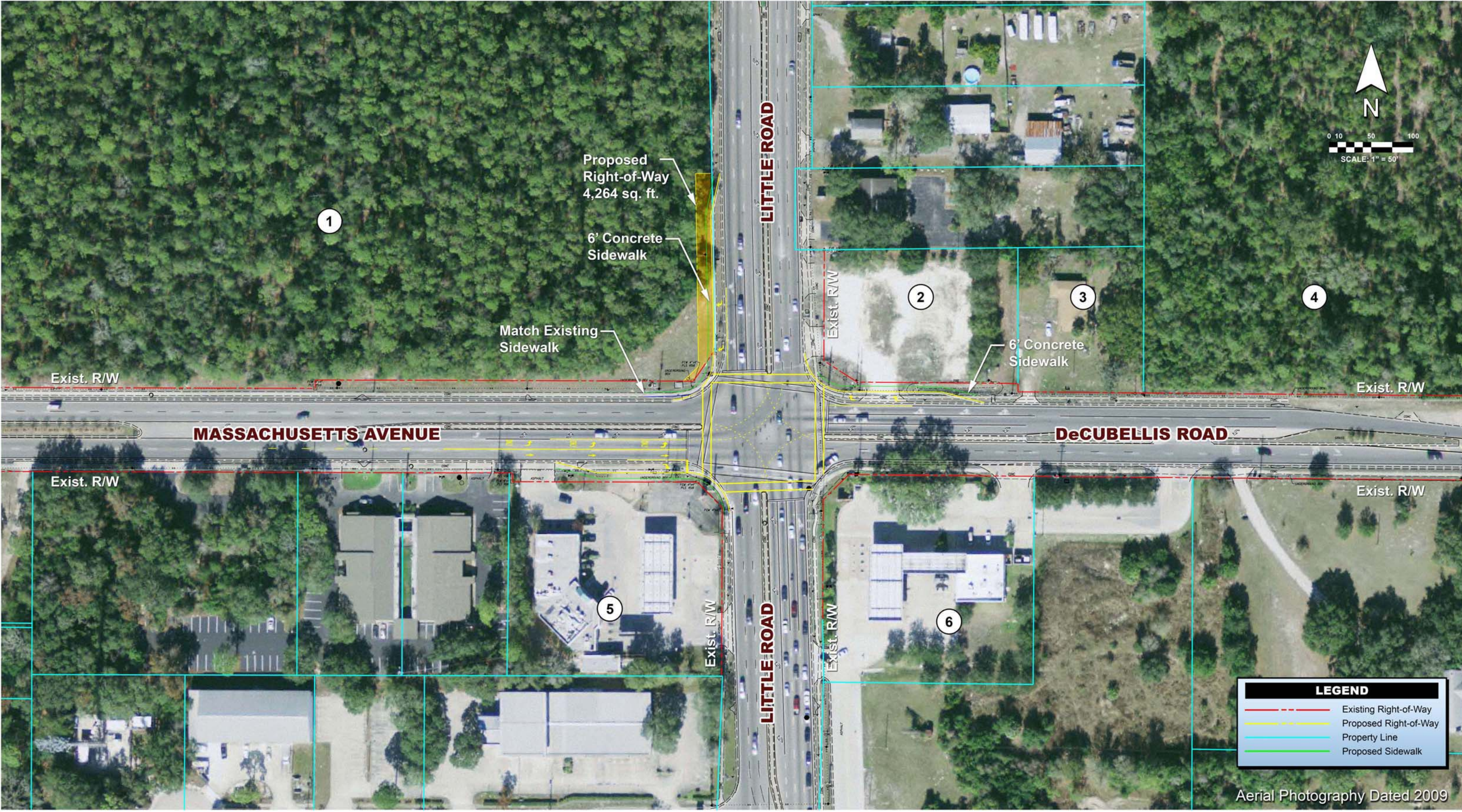


LITTLE RD. AT MASSACHUSETTS AVE. & DECUBELLIS RD.

ALTERNATIVE 1: INTERSECTION IMPROVEMENTS

ROADWAY EXHIBIT A
NEW PORT RICHEY, PASCO COUNTY



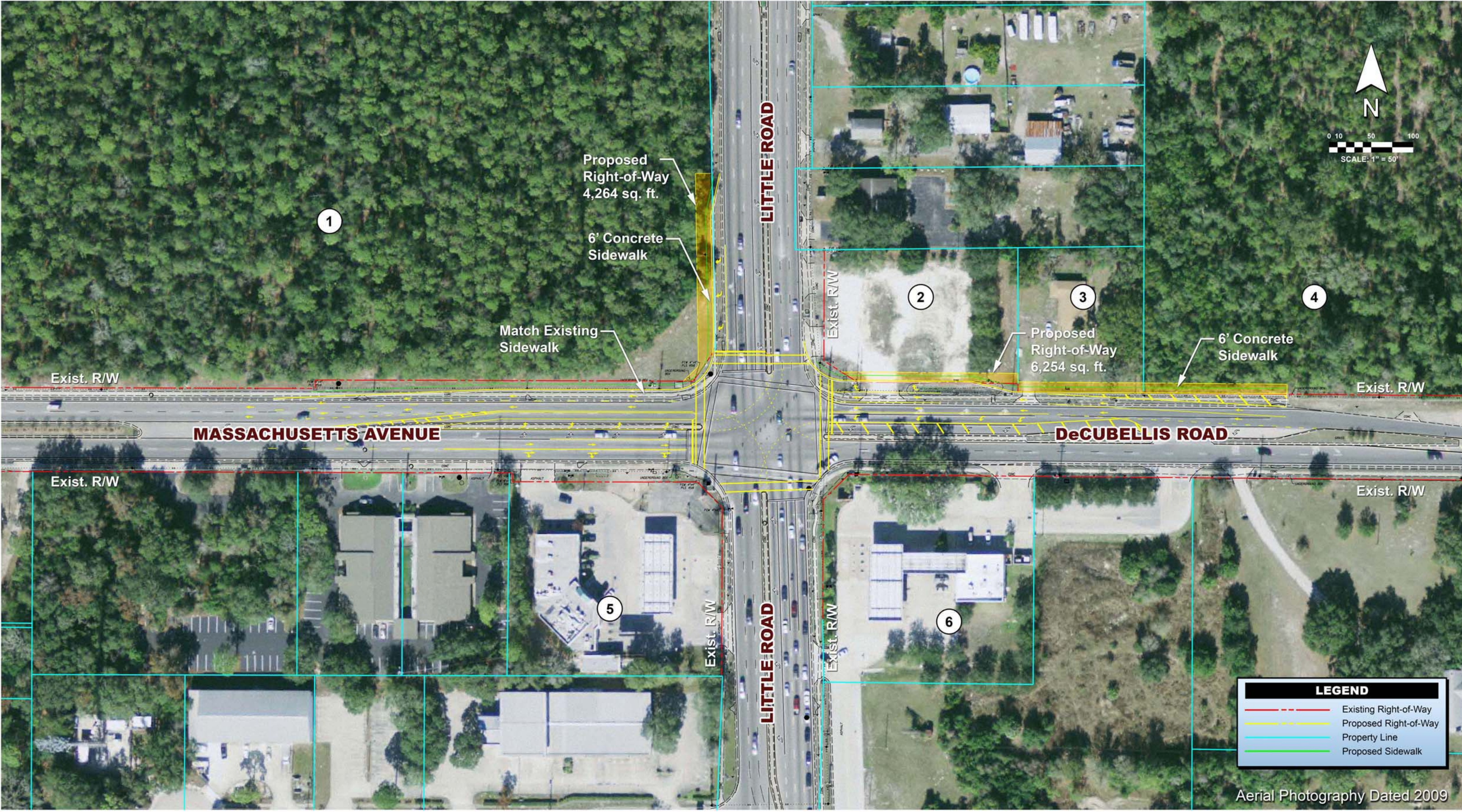


LITTLE RD. AT MASSACHUSETTS AVE. & DECUBELLIS RD.

ALTERNATIVE 2: INTERSECTION IMPROVEMENTS

ROADWAY EXHIBIT B
NEW PORT RICHEY, PASCO COUNTY



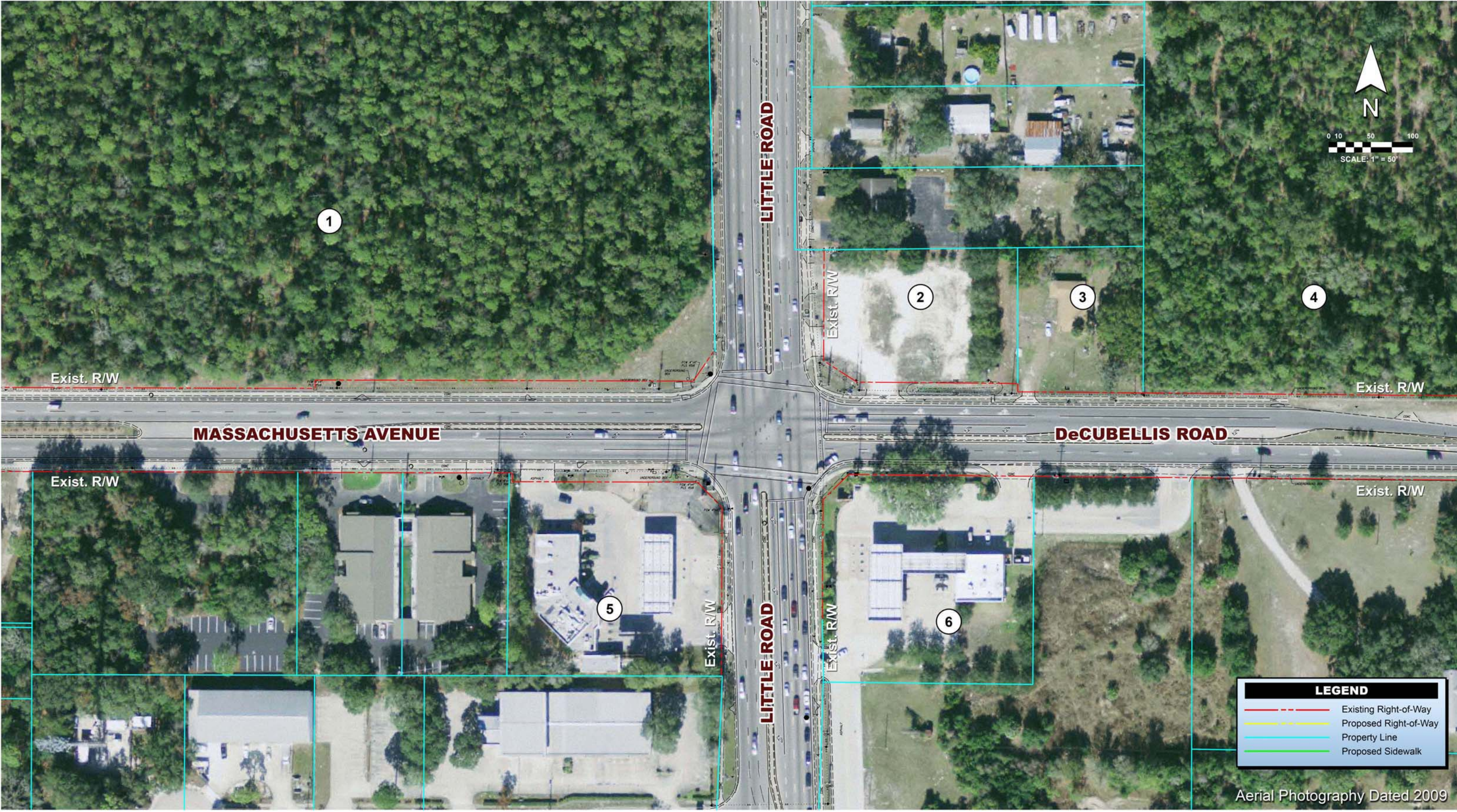


LITTLE RD. AT MASSACHUSETTS AVE. & DECUBELLIS RD.

ALTERNATIVE 3: INTERSECTION IMPROVEMENTS

ROADWAY EXHIBIT C
NEW PORT RICHEY, PASCO COUNTY





LEGEND	
	Existing Right-of-Way
	Proposed Right-of-Way
	Property Line
	Proposed Sidewalk

Aerial Photography Dated 2009

LITTLE RD. AT MASSACHUSETTS AVE. & DECUBELLIS RD.

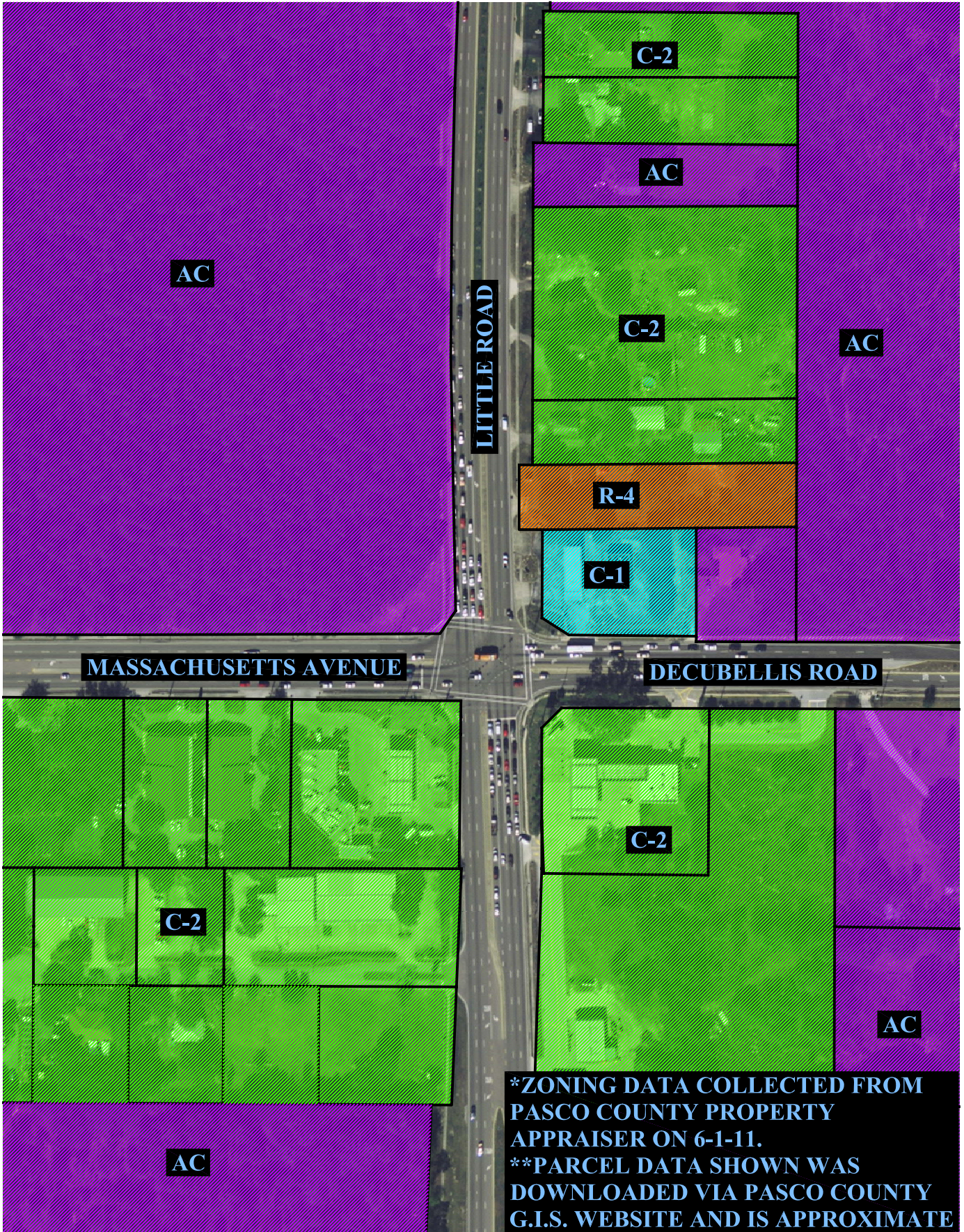
EXISTING CONDITIONS



ROADWAY EXHIBIT D
 NEW PORT RICHEY, PASCO COUNTY
 NO-BUILD ALTERNATIVE



\\Ftms01\Proj-fmt\20077150-012 Little Road-Decubellis\Exhibits\Parcels.dwg (ZONING MAP) dtt Jun 04, 2011 - 1:11pm



***ZONING DATA COLLECTED FROM PASCO COUNTY PROPERTY APPRAISER ON 6-1-11.**
****PARCEL DATA SHOWN WAS DOWNLOADED VIA PASCO COUNTY G.I.S. WEBSITE AND IS APPROXIMATE**

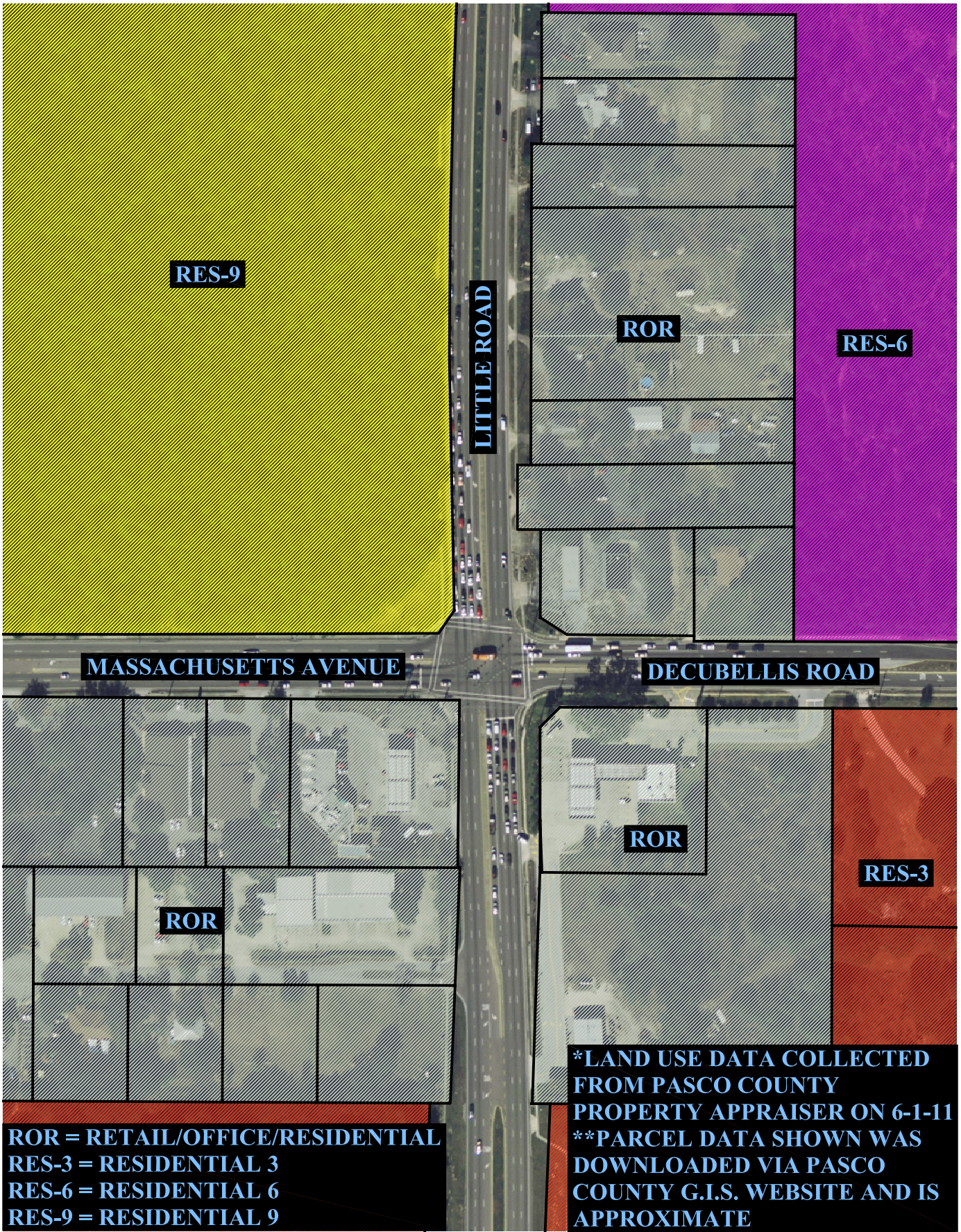
JOHNSON ENGINEERING

2122 JOHNSON STREET
 P.O. BOX 1550
 FORT MYERS, FLORIDA 33902-1550
 PHONE (239) 334-0046
 FAX (239) 334-3661
 E.B. #642 & L.B. #642

**EXISTING ZONING MAP
 EXHIBIT E-1**

DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
JUNE 2011	20077150-012		As Shown	1 Of 1

\\Ftms01\Proj-frmt\20077150-012 Little Road-Decubellis\Exhibits\Parcels.dwg (FUTURE LAND USE MAP) dtt Jun 04, 2011 - 1:08pm



ROR = RETAIL/OFFICE/RESIDENTIAL
RES-3 = RESIDENTIAL 3
RES-6 = RESIDENTIAL 6
RES-9 = RESIDENTIAL 9

***LAND USE DATA COLLECTED FROM PASCO COUNTY PROPERTY APPRAISER ON 6-1-11**
****PARCEL DATA SHOWN WAS DOWNLOADED VIA PASCO COUNTY G.I.S. WEBSITE AND IS APPROXIMATE**



2122 JOHNSON STREET
 P.O. BOX 1550
 FORT MYERS, FLORIDA 33902-1550
 PHONE (239) 334-0046
 FAX (239) 334-3661
 E.B. #642 & L.B. #642

FUTURE LAND USE MAP
 EXHIBIT E-2

DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
JUNE 2011	20077150-012		As Shown	1 Of 1

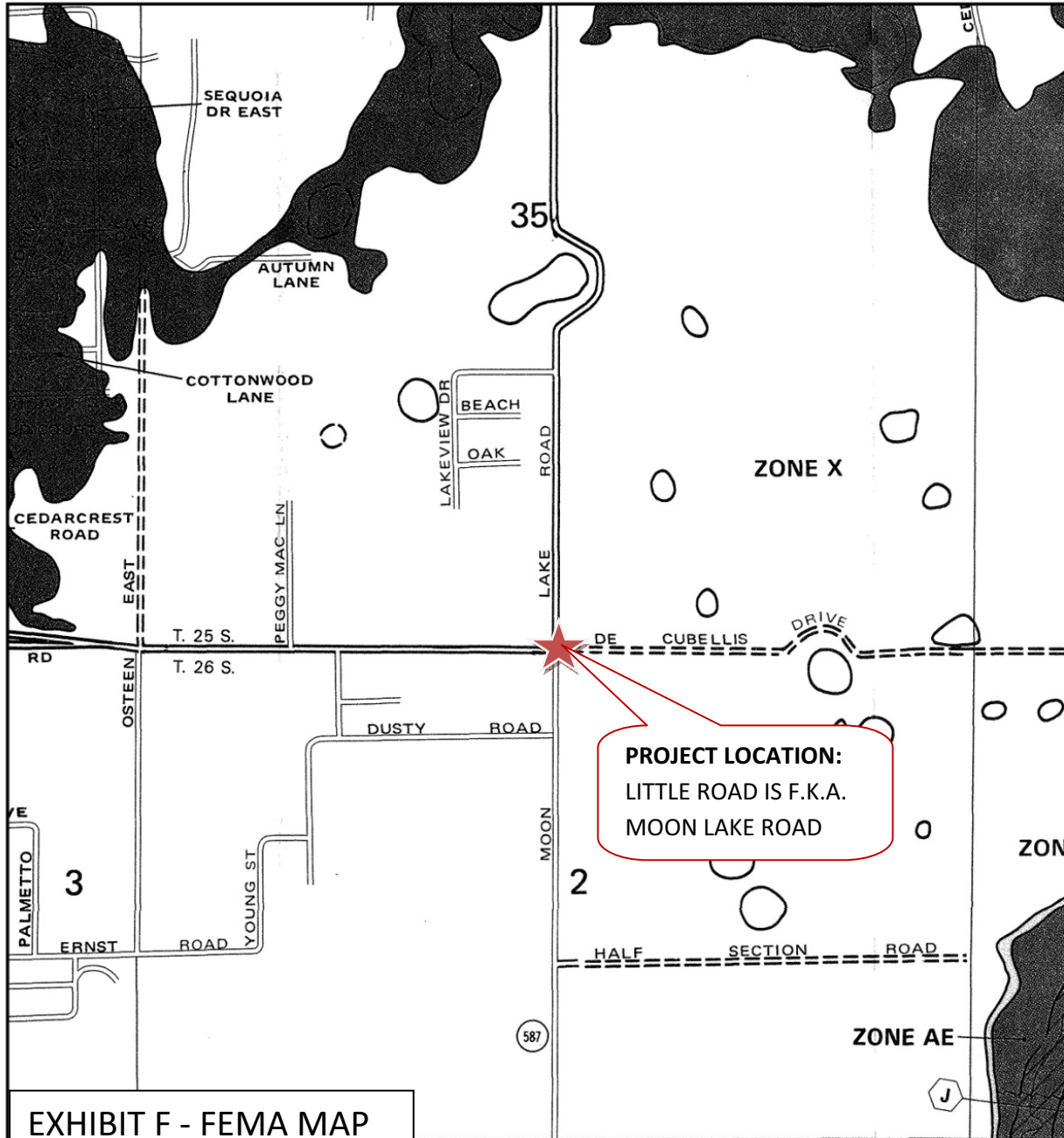

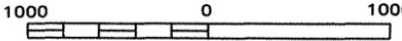


EXHIBIT F - FEMA MAP


 APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

PASCO COUNTY,
FLORIDA
 (UNINCORPORATED AREAS)

PANEL 195 OF 500
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY—PANEL NUMBER:
 120230 0195 D
MAP REVISED:
 SEPTEMBER 30, 1992


Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

APPENDIX A

Traffic Data Provided by Pasco County

(Appendix is Double-Sided)



Basic Volume Report: DECUBELLIS RD WB

Station ID : DECUBELLIS RD WB

Info Line 1 : E OF CR-1

Info Line 2 : 0

GPS Lat/Lon :

DB File : DECUBELLISRD3WB.DB

Last Connected Device Type : Unicorn

Version Number : 2.39

Serial Number : 38975

Number of Lanes : 1

Posted Speed Limit :

Lane #1 Configuration

#	Dir. Information	Volume Mode	Volume Sensors	Divide By 2	Comment
1.	WESTBOUND	Normal	Axle	Yes	

Lane #1 Basic Volume Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Date	DW	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
020811	T	21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054
Month Total :		21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054
Percent :		0%	0%	0%	0%	0%	2%	5%	9%	10%	6%	5%	5%	5%	6%	7%	7%	8%	9%	6%	4%	2%	2%	1%	1%	
ADT :		21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent
DW Totals :	0	0	6054	0	0	0	0	Weekday (Mon-Fri) :	6054 100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	6054
ADT :	0	0	6054	0	0	0	0	Weekend (Sat-Sun) :	0 0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0

Basic Volume Summary: DECUBELLIS RD WB

Grand Total For Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Total Count	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054
TOTAL	21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Lane #1	0%	0%	0%	0%	0%	2%	5%	9%	10%	6%	5%	5%	5%	6%	7%	7%	8%	9%	6%	4%	2%	2%	1%	1%	
TOTAL	0%	0%	0%	0%	0%	2%	5%	9%	10%	6%	5%	5%	5%	6%	7%	7%	8%	9%	6%	4%	2%	2%	1%	1%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054
TOTAL	21	19	9	14	26	91	279	548	581	393	329	289	324	364	428	426	473	522	359	217	124	92	79	47	6054

LANE #1

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	6054	0	0	0	0	Weekday (Mon-Fri) :	6054	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	6054	
ADT :	0	0	6054	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	6054	0	0	0	0	Weekday (Mon-Fri) :	6054	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	6054	
ADT :	0	0	6054	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

Basic Volume Report: MASSACHUSETTS AV EB

Station ID : MASSACHUSETTS AV EB

Info Line 1 : W OF CR-1

Info Line 2 : 0

GPS Lat/Lon :

DB File : MASS AV EB 4.DB

Last Connected Device Type : Unicorn

Version Number : 2.39

Serial Number :

Number of Lanes : 1

Posted Speed Limit :

Lane #1 Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide By 2	Comment
1.		EASTBOUND	Normal	Axle	Yes	

Lane #1 Basic Volume Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Date	DW	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
020811	T	34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109
Month Total :		34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109
Percent :		0%	0%	0%	0%	1%	1%	4%	5%	6%	6%	6%	6%	7%	7%	7%	8%	8%	8%	6%	4%	3%	2%	1%	1%	
ADT :		34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent
DW Totals :	0	0	8109	0	0	0	0	8109	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	8109	
ADT :	0	0	8109	0	0	0	0	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	0	

Basic Volume Summary: MASSACHUSETTS AV EB

Grand Total For Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Total Count	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109
TOTAL	34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
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TOTAL	0%	0%	0%	0%	1%	1%	4%	5%	6%	6%	6%	6%	7%	7%	7%	8%	8%	8%	6%	4%	3%	2%	1%	1%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109
TOTAL	34	17	18	27	50	95	301	430	484	519	521	510	558	603	580	630	681	669	450	333	216	182	118	83	8109

LANE #1

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	8109	0	0	0	0	Weekday (Mon-Fri) :	8109	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	8109	
ADT :	0	0	8109	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	8109	0	0	0	0	Weekday (Mon-Fri) :	8109	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	8109	
ADT :	0	0	8109	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

Basic Volume Report: LITTLE RD 2 NB

Station ID : LITTLE RD 2 NB

Info Line 1 : S OF DECUBELLIS

Info Line 2 : 0

GPS Lat/Lon :

DB File : LITTLE RD 2 NB.DB

Last Connected Device Type : Unicorn

Version Number : 2.39

Serial Number : 198T38971

Number of Lanes : 1

Posted Speed Limit :

Lane #1 Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide By 2	Comment
1.		NORTHBOUND	Normal	Axle	Yes	

Lane #1 Basic Volume Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Date	DW	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
020811	T	105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289
Month Total :		105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289
Percent :		1%	0%	0%	0%	0%	1%	3%	6%	6%	6%	6%	6%	7%	7%	7%	8%	8%	9%	7%	4%	3%	2%	1%	1%	
ADT :		105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent
DW Totals :	0	0	18289	0	0	0	0	Weekday (Mon-Fri) :	18289 100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	18289
ADT :	0	0	18289	0	0	0	0	Weekend (Sat-Sun) :	0 0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0

Basic Volume Summary: LITTLE RD 2 NB

Grand Total For Data From: 00:00 - 02/08/2011 To: 23:59 - 02/08/2011

Total Count	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289
TOTAL	105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Lane #1	1%	0%	0%	0%	0%	1%	3%	6%	6%	6%	6%	6%	7%	7%	7%	8%	8%	9%	7%	4%	3%	2%	1%	1%	
TOTAL	1%	0%	0%	0%	0%	1%	3%	6%	6%	6%	6%	6%	7%	7%	7%	8%	8%	9%	7%	4%	3%	2%	1%	1%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289
TOTAL	105	56	51	37	57	182	494	1103	1157	1083	1079	1037	1216	1235	1295	1409	1495	1668	1272	779	577	406	272	224	18289

LANE #1

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	18289	0	0	0	0	Weekday (Mon-Fri) :	18289	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	18289	
ADT :	0	0	18289	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	0	18289	0	0	0	0	Weekday (Mon-Fri) :	18289	100%
# Days :	0.0	0.0	1.0	0.0	0.0	0.0	0.0	ADT :	18289	
ADT :	0	0	18289	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	0%	100%	0%	0%	0%	0%	ADT :	0	

Basic Volume Report: LITTLE RD 1 SB

Station ID : LITTLE RD 1 SB

Info Line 1 : N OF DECUBELLIS

Info Line 2 : 0

GPS Lat/Lon :

DB File : LITTLE RD 1 SB.DB

Last Connected Device Type : Unicorn

Version Number : 2.39

Serial Number :

Number of Lanes : 1

Posted Speed Limit :

Lane #1 Configuration

#	Dir. Information	Volume Mode	Volume Sensors	Divide By 2	Comment
1.	SOUTHBOUND	Normal	Axle	Yes	

Lane #1 Basic Volume Data From: 00:00 - 02/07/2011 To: 23:59 - 02/07/2011

Date	DW	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
020711	M	74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522
Month Total :		74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522
Percent :		0%	0%	0%	0%	1%	2%	5%	7%	7%	7%	6%	7%	7%	7%	8%	8%	8%	6%	4%	3%	2%	1%	1%	0%	
ADT :		74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent
DW Totals :	0	19522	0	0	0	0	0	Weekday (Mon-Fri) :	19522 100%
# Days :	0.0	1.0	0.0	0.0	0.0	0.0	0.0	ADT :	19522
ADT :	0	19522	0	0	0	0	0	Weekend (Sat-Sun) :	0 0%
Percent :	0%	100%	0%	0%	0%	0%	0%	ADT :	0

Basic Volume Summary: LITTLE RD 1 SB

Grand Total For Data From: 00:00 - 02/07/2011 To: 23:59 - 02/07/2011

Total Count	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522
TOTAL	74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
Lane #1	0%	0%	0%	0%	1%	2%	5%	7%	7%	7%	6%	7%	7%	7%	8%	8%	8%	6%	4%	3%	2%	1%	1%	0%	
TOTAL	0%	0%	0%	0%	1%	2%	5%	7%	7%	7%	6%	7%	7%	7%	8%	8%	8%	6%	4%	3%	2%	1%	1%	0%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522
TOTAL	74	42	64	69	165	482	959	1365	1303	1284	1237	1305	1407	1438	1552	1613	1586	1244	872	544	435	257	130	95	19522

LANE #1

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	19522	0	0	0	0	0	Weekday (Mon-Fri) :	19522	100%
# Days :	0.0	1.0	0.0	0.0	0.0	0.0	0.0	ADT :	19522	
ADT :	0	19522	0	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	100%	0%	0%	0%	0%	0%	ADT :	0	

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	0	19522	0	0	0	0	0	Weekday (Mon-Fri) :	19522	100%
# Days :	0.0	1.0	0.0	0.0	0.0	0.0	0.0	ADT :	19522	
ADT :	0	19522	0	0	0	0	0	Weekend (Sat-Sun) :	0	0%
Percent :	0%	100%	0%	0%	0%	0%	0%	ADT :	0	

Pasco County
 Traffic Operations Division
 7530 Little Rd.
 New Port Richey, Fl. 34654

Counted By:
 Traffic Operations
 Weather: Clear

File Name : LittleRd-DecubMass
 Site Code : 00000000
 Start Date : 2/15/2011
 Page No : 1

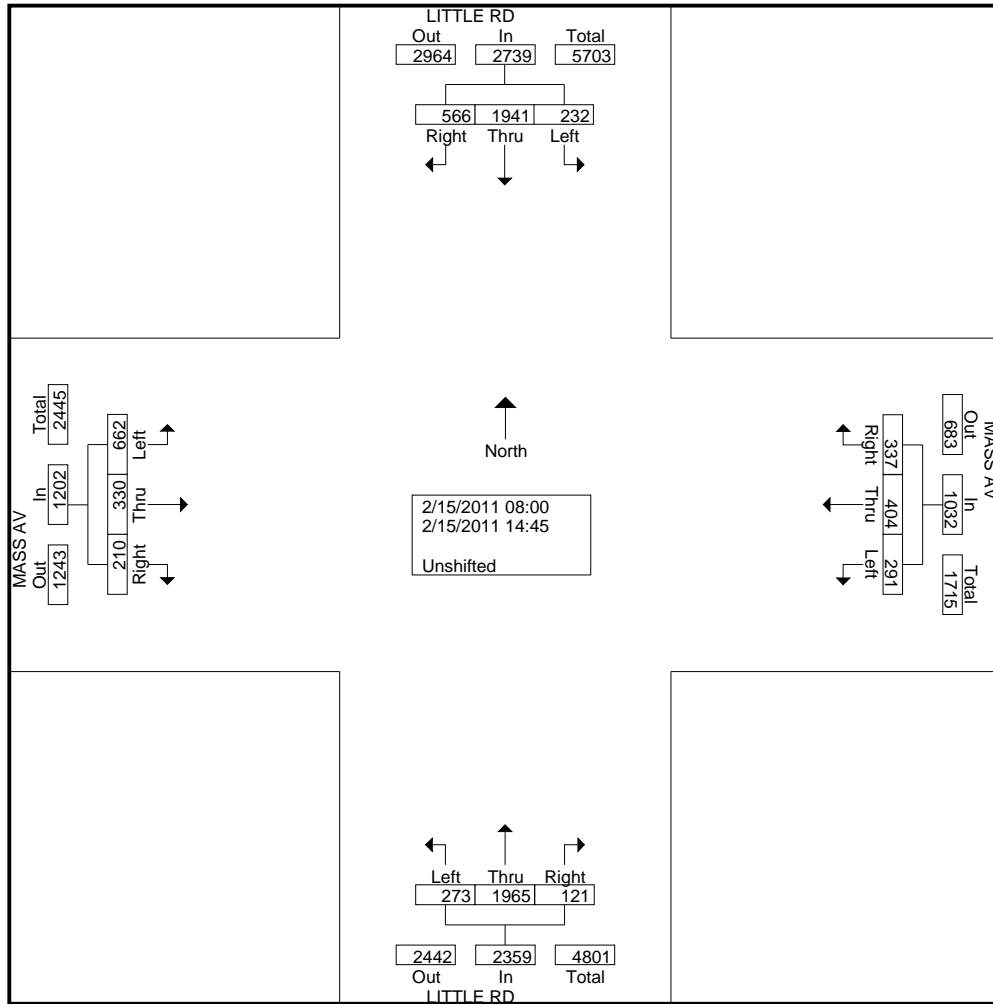
Groups Printed- Unshifted

Start Time	LITTLE RD Southbound				MASS AV Westbound				LITTLE RD Northbound				MASS AV Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
08:00	33	253	53	339	39	62	43	144	31	327	13	371	67	23	31	121	975
08:15	39	240	50	329	44	76	59	179	36	264	12	312	82	36	22	140	960
08:30	30	264	70	364	36	57	39	132	22	227	13	262	88	56	25	169	927
08:45	24	213	77	314	36	56	37	129	31	231	15	277	70	21	30	121	841
Total	126	970	250	1346	155	251	178	584	120	1049	53	1222	307	136	108	551	3703
*** BREAK ***																	
14:00	23	212	90	325	29	42	24	95	28	249	20	297	83	49	30	162	879
14:15	30	245	87	362	36	26	53	115	40	260	21	321	61	46	15	122	920
14:30	27	237	67	331	38	46	47	131	39	210	10	259	91	49	22	162	883
14:45	26	277	72	375	33	39	35	107	46	197	17	260	120	50	35	205	947
Total	106	971	316	1393	136	153	159	448	153	916	68	1137	355	194	102	651	3629
Grand Total	232	1941	566	2739	291	404	337	1032	273	1965	121	2359	662	330	210	1202	7332
Apprch %	8.5	70.9	20.7		28.2	39.1	32.7		11.6	83.3	5.1		55.1	27.5	17.5		
Total %	3.2	26.5	7.7	37.4	4	5.5	4.6	14.1	3.7	26.8	1.7	32.2	9	4.5	2.9	16.4	

Pasco County
 Traffic Operations Division
 7530 Little Rd.
 New Port Richey, Fl. 34654

Counted By:
 Traffic Operations
 Weather: Clear

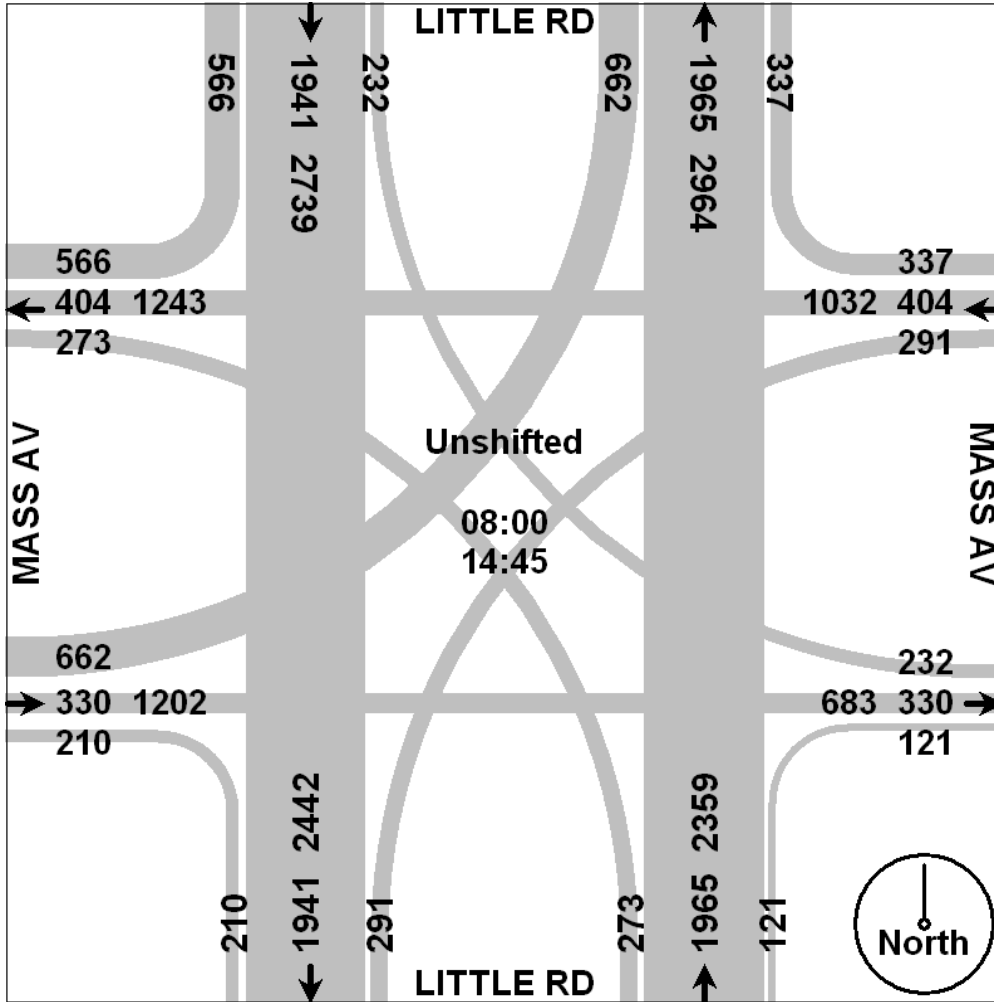
File Name : LittleRd-DecubMass
 Site Code : 00000000
 Start Date : 2/15/2011
 Page No : 2



Pasco County
Traffic Operations Division
7530 Little Rd.
New Port Richey, Fl. 34654

Counted By:
Traffic Operations
Weather: Clear

File Name : LittleRd-DecubMass
Site Code : 00000000
Start Date : 2/15/2011
Page No : 3



APPENDIX B

Existing Signal Timings

(Appendix is Double-Sided)



WO#: 568 LAST UPDATE: 7/6/2009

LOCATIO CR1 (LITTLE) & MASS. (CR587)

CONT: ASC/2S-2100 SER#: 25254 TYPE: SIG REPAIR 1

MONITOR MMU-16E SER#: 060605037 SOP: 16 TURN ON DATE:

DETQUAN: 7 DETDELAY: POWER ACCT: 93042 91039

OTHER1: MDS RADIO OPTICOM: YES STREET LIGHTS: NO

OTHER2: ENFORCEMENT YES STREET LIGHT QTY:

SOLAR WARNING FLASHERS: NO MASTARMS: NO ILLUMINATED SIGNS: NO

SOLAR WARNING FLASHERS QTY: UPS: YES ILLUMINATED SIGNS

PHAS	DIRECTION	MI	PAS	YEL	RC	MAX1	MAX2	WALK	PC	PHAS	MIN REC	MAX REC	ME M	ME ON M	CNA	DET SWITCH	FLASH COLOR
1	SB LEFT	6	4	4	1	12				1			X				R
2	NB THRU	20	4.5	4.5	1.5	40		5	28	2	X			X			Y
3	WB LEFT	6	4	4	1	12				3				X		X/ 8	
4	EB THRU	10	4	4.5	1.5	22		5	25	4			X				R
5	NB LEFT	6	4	4	1	12				5			X				R
6	SB THRU	20	4.5	4.5	1.5	40		5	28	6	X			X			Y
7	EB LEFT	6	4	4	1	12				7				X		X/ 4	
8	WB THRU	10	4.5	4.5	1.5	22		5	25	8			X				R

OVERLAP A FLASH TIMES SYSTEM JURIS: COUNTY
 B FROM: SYS# 6 VALUE: 125,000
 C TO: ID#: 6 REIMBURSEME
 C NOTE
 D TS-2 CABINET.

POLE DATA

CORNER1:
CORNER2:
CORNER3:
CORNER4:

Coordination Patterns

 Pattern 1

Cycle Length . . . 130 COS 111
 Offset 80
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 12 2- 49 3- 24 4- 15
 Phase 5- 12 6- 49 7- 24 8- 15
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

 Pattern 2

Cycle Length . . . 170 COS 311
 Offset 44
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 16 2- 39 3- 28 4- 17
 Phase 5- 11 6- 44 7- 28 8- 17
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

 Pattern 3

Cycle Length . . . 150 COS 221
 Offset 72
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 12 2- 50 3- 24 4- 14
 Phase 5- 14 6- 48 7- 24 8- 14
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

Coordination Patterns

 Pattern 4

Cycle Length . . . 170 COS 321
 Offset 5
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 15 2- 48 3- 23 4- 14
 Phase 5- 15 6- 48 7- 23 8- 14
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

 Pattern 5

Cycle Length . . . 200 COS 431
 Offset 93
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 15 2- 53 3- 19 4- 13
 Phase 5- 15 6- 53 7- 19 8- 13
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

 Pattern 6

Cycle Length . . . 130 COS 121
 Offset 80
 Vehicle Permissive . . [1] 0 [2] 0
 Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
 Splits: Phase 1- 13 2- 45 3- 27 4- 15
 Phase 5- 13 6- 45 7- 27 8- 15
 Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0
 Split Extension/Ring [1] 0 [2] 0
 Split Demand Pattern [1] 0 [2] 0
 XRT Pattern. . . 0
 Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12
 Coord Phases . . . X . . . X
 Veh Recall
 Veh Max Recall
 Ped Recall
 Veh Omit
 Alt Sequence . . A: . B: . C: . D: . E: . F: .

TOD Weekly/Yearly

	Weekly Program Numbers										
	1	2	3	4	5	6	7	8	9	10	
Sunday . . .	2	2	2	2	2	2	2	2	2	2	Program No.
Monday . . .	1	2	2	1	1	1	1	1	1	1	Program No.
Tuesday . . .	1	2	1	2	1	1	1	1	1	1	Program No.
Wednesday . .	1	2	1	1	2	1	1	1	1	1	Program No.
Thursday . .	1	2	1	1	1	2	1	2	1	1	Program No.
Friday . . .	1	2	1	1	1	1	2	2	1	1	Program No.
Saturday . .	2	2	2	2	2	2	2	2	2	2	Program No.

	Week of Year																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Prog	3	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	7	1
Prog	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	1
Prog	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
	3	1	1	1	1	1	1	1	1	7	1	8	1	1	1	1	3	

NIC Program Steps

Step	Program	Step Begins	Pattern	Override
1	1	0600	1	NO
2	1	0700	2	NO
3	1	0900	3	NO
4	1	1445	4	NO
5	1	1630	5	NO
6	1	1815	6	NO
7	1	2100	0	NO
8	2	0700	6	NO
9	2	0900	3	NO
10	2	1800	6	NO
11	2	2100	0	NO

APPENDIX C

Synchro Approach Delay and Queuing Analysis

(Appendix is Double-Sided)





2011 Synchro HCM Intersection A.M. Peak Hour Approach Delay (sec/veh) Summary

Description	Year	EB APPROACH	WB APPROACH	NB APPROACH	SB APPROACH	OVERALL INTERSECTION
Base Model	Current* - 2011	65.1	146.7	37.0	40.7	60.8
	Projected** - 2016	100.2	114.8	68.2	78.5	87.0
	Projected** - 2035	412.9	1,847.8	63.2	255.1	741.1
Alt. 1	Current* - 2011	49.6	32.6	35.7	27.3	34.4
	Projected** - 2016	75.4	51.5	50.1	37.3	49.8
	Projected** - 2035	437.9	1,072.4	63.2	123.4	455.2
Alt. 2	Current* - 2011	44.6	29.9	34.2	26.1	32.3
	Projected** - 2016	55.7	52.5	48.3	36.6	46.3
	Projected** - 2035	261.2	326.2	250.1	181.3	253.7
Alt. 3	Current* - 2011	42.5	33.6	34.2	26.1	32.5
	Projected** - 2016	51.7	52.5	48.3	36.6	45.7
	Projected** - 2035	252.3	326.2	250.1	176.6	251.0

2011 Synchro HCM Intersection P.M. Peak Hour Approach Delay (sec/veh) Summary

Description	Year	EB APPROACH	WB APPROACH	NB APPROACH	SB APPROACH	OVERALL INTERSECTION
Base Model	Current* - 2011	176.7	95.2	55.5	48.5	80.7
	Projected** - 2016	302.9	371.7	67.0	92.0	173.6
	Projected** - 2035	844.0	1,624.5	141.3	455.7	755.8
Alt. 1	Current* - 2011	73.8	46.2	45.4	51.0	52.9
	Projected** - 2016	101.9	99.5	83.6	78.1	87.8
	Projected** - 2035	903.2	1,004.7	141.3	213.7	519.9
Alt. 2	Current* - 2011	60.0	41.1	41.2	48.2	47.3
	Projected** - 2016	84.1	92.2	72.7	55.3	71.9
	Projected** - 2035	459.6	430.6	313.6	379.7	392.0
Alt. 3	Current* - 2011	57.9	42.0	39.2	47.0	46.0
	Projected** - 2016	90.6	91.6	65.8	50.9	69.5
	Projected** - 2035	460.0	433.1	326.2	313.1	372.1

*Based on adjusted Turning Movement Counts collected on 2/15/11 and current patterns. Signal timings provided by Pasco County. No timing optimization was performed as part of this analysis.

**Based on adjusted Turning Movement Counts collected on 2/15/11 and current patterns. Signal timings provided by Pasco County. Timing optimization was performed as part of this analysis.



SYNCHRO QUEUE LENGTH ANALYSIS SUMMARY

No-Build

Direction	2011		2016	
	Signalized		Signalized	
	A.M.	P.M.	A.M.	P.M.
SB Left	142 ft.	154 ft.	136 ft.	238 ft.
SB Right	-	-	-	-
NB Left	140 ft.	287 ft.	148 ft.	356 ft.
NB Right	-	-	-	-
EB Left	354 ft.	773 ft.	403 ft.	1096 ft.
EB Right	-	-	-	-
WB Left	123 ft.	141 ft.	141 ft.	282 ft.
WB Right	-	-	-	-

Alternative 1*

Direction	2011		2016	
	Signalized		Signalized	
	A.M.	P.M.	A.M.	P.M.
SB Left	66 ft.	89 ft.	104 ft.	176 ft.
SB Right	33 ft.	105 ft.	93 ft.	284 ft.
NB Left	67 ft.	136 ft.	95 ft.	295 ft.
NB Right	-	-	-	-
EB Left	100 ft.	183 ft.	152 ft.	352 ft.
EB Right	-	-	-	-
WB Left	79 ft.	112 ft.	178 ft.	392 ft.
WB Right	77 ft.	122 ft.	203 ft.	426 ft.

Alternative 2*

Direction	2011		2016	
	Signalized		Signalized	
	A.M.	P.M.	A.M.	P.M.
SB Left	63 ft.	89 ft.	104 ft.	157 ft.
SB Right	33 ft.	105 ft.	93 ft.	252 ft.
NB Left	64 ft.	135 ft.	95 ft.	258 ft.
NB Right	-	-	-	-
EB Left	100 ft.	183 ft.	152 ft.	334 ft.
EB Right	15 ft.	27 ft.	90 ft.	89 ft.
WB Left	79 ft.	109 ft.	178 ft.	332 ft.
WB Right	77 ft.	122 ft.	203 ft.	394 ft.

Alternative 3*

Direction	2011		2016	
	Signalized		Signalized	
	A.M.	P.M.	A.M.	P.M.
SB Left	63 ft.	85 ft.	104 ft.	156 ft.
SB Right	33 ft.	105 ft.	93 ft.	248 ft.
NB Left	64 ft.	129 ft.	95 ft.	246 ft.
NB Right	-	-	-	-
EB Left	100 ft.	183 ft.	152 ft.	355 ft.
EB Right	-	-	-	-
WB Left	79 ft.	109 ft.	178 ft.	300 ft.
WB Right	77 ft.	122 ft.	203 ft.	395 ft.

*Queue Lengths assume traffic signal optimization.

AM PEAK HOUR SYNCHRO REPORTS

Description	Page No.
2011 Base Model AM PK LOS and Queue Analysis	1-3
2011 Alternative 1 AM PK LOS and Queue Analysis	4-6
2011 Alternative 2 AM PK LOS and Queue Analysis	7-9
2011 Alternative 3 AM PK LOS and Queue Analysis	10-12
2016 Base Model AM PK LOS and Queue Analysis	13-15
2016 Alternative 1 AM PK LOS and Queue Analysis	16-18
2016 Alternative 2 AM PK LOS and Queue Analysis	19-21
2016 Alternative 3 AM PK LOS and Queue Analysis	22-24
2035 Base Model AM PK LOS and Queue Analysis	25-27
2035 Alternative 1 AM PK LOS and Queue Analysis	28-30
2035 Alternative 2 AM PK LOS and Queue Analysis	31-33
2035 Alternative 3 AM PK LOS and Queue Analysis	34-36

BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	307	136	108	155	251	178	120	1049	53	126	970	250
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.932			0.934			0.992			0.969	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3299	0	1770	3306	0	1770	5045	0	1770	4928	0
Flt Permitted	0.200			0.593			0.950			0.950		
Satd. Flow (perm)	373	3299	0	1105	3306	0	1770	5045	0	1770	4928	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		111			105			7			54	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	415	140	117	174	302	237	145	1192	65	143	1102	284
Shared Lane Traffic (%)												
Lane Group Flow (vph)	415	257	0	174	539	0	145	1257	0	143	1386	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								
Detector Phase	7	4		3	8		5	2		1	6	

BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	36.0	21.0	0.0	36.0	21.0	0.0	21.0	75.0	0.0	18.0	72.0	0.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	0.0%	14.0%	50.0%	0.0%	12.0%	48.0%	0.0%
Maximum Green (s)	31.0	15.0		31.0	15.0		16.0	69.0		13.0	66.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	52.0	29.7		32.3	15.0		15.1	69.0		13.0	66.9	
Actuated g/C Ratio	0.35	0.20		0.22	0.10		0.10	0.46		0.09	0.45	
v/c Ratio	0.99	0.35		0.56	1.27		0.81	0.54		0.93	0.62	
Control Delay	86.1	31.2		44.5	179.6		97.6	30.0		123.9	32.1	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	86.1	31.2		44.5	179.6		97.6	30.0		123.9	32.1	
LOS	F	C		D	F		F	C		F	C	
Approach Delay		65.1			146.7			37.0			40.7	
Approach LOS		E			F			D			D	

Intersection Summary

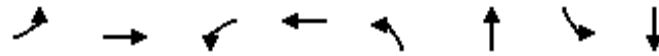
Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.27
 Intersection Signal Delay: 60.8
 Intersection Capacity Utilization 79.0%
 Analysis Period (min) 15
 Intersection LOS: E
 ICU Level of Service D

Splits and Phases: 3: Decubellis & Little Road



BASE MODEL AM PK LOS
3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	415	257	174	539	145	1257	143	1386
v/c Ratio	0.99	0.35	0.56	1.27	0.81	0.54	0.93	0.62
Control Delay	86.1	31.2	44.5	179.6	97.6	30.0	123.9	32.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	31.2	44.5	179.6	97.6	30.0	123.9	32.1
Queue Length 50th (ft)	354	63	123	~298	140	317	142	366
Queue Length 95th (ft)	#390	113	185	#367	#216	352	#270	404
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	418	742	484	425	189	2324	153	2228
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.99	0.35	0.36	1.27	0.77	0.54	0.93	0.62

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2011 Alternate 1 AM PK Ios
3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	307	136	108	155	251	178	120	1049	53	126	970	250
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		250	335		0	440		225
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.932				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1736	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1736	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		50				7		11				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	415	140	117	174	302	237	145	1192	65	143	1102	284
Shared Lane Traffic (%)												
Lane Group Flow (vph)	415	257	0	174	302	237	145	1257	0	143	1102	284
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2011 Alternate 1 AM PK Ios
3: Decubellis & Little Road

7/31/2011

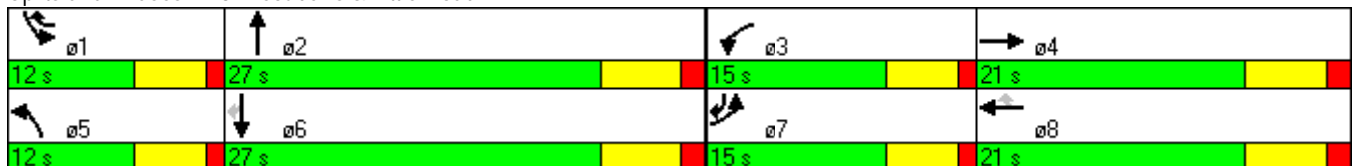


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	15.0	21.0	0.0	15.0	21.0	12.0	12.0	27.0	0.0	12.0	27.0	15.0
Total Split (%)	20.0%	28.0%	0.0%	20.0%	28.0%	16.0%	16.0%	36.0%	0.0%	16.0%	36.0%	20.0%
Maximum Green (s)	10.0	15.0		10.0	15.0	7.0	7.0	21.0		7.0	21.0	10.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	10.0	13.6		9.7	13.3	27.3	8.1	21.7		8.1	21.6	37.6
Actuated g/C Ratio	0.13	0.18		0.13	0.18	0.36	0.11	0.29		0.11	0.29	0.50
v/c Ratio	0.91	0.72		0.76	0.48	0.41	0.76	0.86		0.75	0.75	0.33
Control Delay	58.3	35.6		54.5	30.1	19.6	61.2	32.7		60.5	28.3	6.6
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	58.3	35.6		54.5	30.1	19.6	61.2	32.7		60.5	28.3	6.6
LOS	E	D		D	C	B	E	C		E	C	A
Approach Delay		49.6			32.6			35.7			27.3	
Approach LOS		D			C			D			C	

Intersection Summary

Area Type: Other
 Cycle Length: 75
 Actuated Cycle Length: 75
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.91
 Intersection Signal Delay: 34.4 Intersection LOS: C
 Intersection Capacity Utilization 69.1% ICU Level of Service C
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2011 Alternate 1 AM PK Ios
 3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	415	257	174	302	237	145	1257	143	1102	284
v/c Ratio	0.91	0.72	0.76	0.48	0.41	0.76	0.86	0.75	0.75	0.33
Control Delay	58.3	35.6	54.5	30.1	19.6	61.2	32.7	60.5	28.3	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	35.6	54.5	30.1	19.6	61.2	32.7	60.5	28.3	6.6
Queue Length 50th (ft)	100	90	79	65	77	67	202	66	171	33
Queue Length 95th (ft)	#127	#171	#168	92	107	#149	#270	#161	213	74
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		250	335		440		225
Base Capacity (vph)	458	387	236	708	581	191	1465	190	1466	867
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.91	0.66	0.74	0.43	0.41	0.76	0.86	0.75	0.75	0.33

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2011 Alternate 2 AM PK LOS
3: Decubellis & Little Road

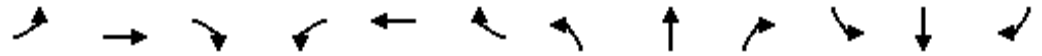
7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	307	136	108	155	251	178	120	1049	53	126	970	250
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.992				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			67			7		11				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	415	140	117	174	302	237	145	1192	65	143	1102	284
Shared Lane Traffic (%)												
Lane Group Flow (vph)	415	140	117	174	302	237	145	1257	0	143	1102	284
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4	5	3	8	1	5	2		1	6	7
Permitted Phases			4			8						6
Detector Phase	7	4	5	3	8	1	5	2		1	6	7

2011 Alternate 2 AM PK LOS
 3: Decubellis & Little Road

7/31/2011

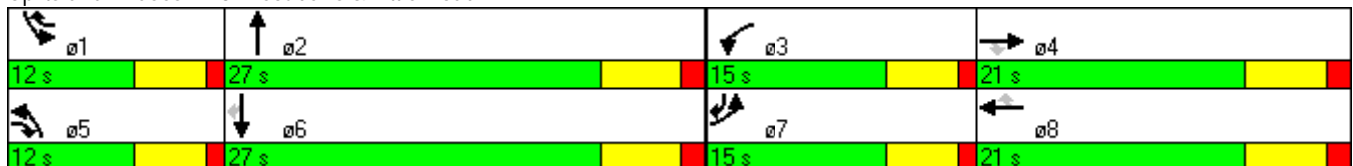


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	15.0	21.0	12.0	15.0	21.0	12.0	12.0	27.0	0.0	12.0	27.0	15.0
Total Split (%)	20.0%	28.0%	16.0%	20.0%	28.0%	16.0%	16.0%	36.0%	0.0%	16.0%	36.0%	20.0%
Maximum Green (s)	10.0	15.0	7.0	10.0	15.0	7.0	7.0	21.0		7.0	21.0	10.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	10.0	11.9	24.1	13.2	11.9	27.3	9.4	21.7		9.3	21.7	37.7
Actuated g/C Ratio	0.13	0.16	0.32	0.18	0.16	0.36	0.13	0.29		0.12	0.29	0.50
v/c Ratio	0.91	0.47	0.21	0.56	0.54	0.41	0.65	0.86		0.65	0.75	0.33
Control Delay	58.3	33.8	8.9	39.6	32.4	19.6	48.9	32.5		48.7	28.3	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	58.3	33.8	8.9	39.6	32.4	19.6	48.9	32.5		48.7	28.3	6.6
LOS	E	C	A	D	C	B	D	C		D	C	A
Approach Delay		44.6			29.9			34.2			26.1	
Approach LOS		D			C			C			C	

Intersection Summary

Area Type: Other
 Cycle Length: 75
 Actuated Cycle Length: 75
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.91
 Intersection Signal Delay: 32.3
 Intersection LOS: C
 Intersection Capacity Utilization 63.9%
 ICU Level of Service B
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2011 Alternate 2 AM PK LOS
 3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	415	140	117	174	302	237	145	1257	143	1102	284
v/c Ratio	0.91	0.47	0.21	0.56	0.54	0.41	0.65	0.86	0.65	0.75	0.33
Control Delay	58.3	33.8	8.9	39.6	32.4	19.6	48.9	32.5	48.7	28.3	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	33.8	8.9	39.6	32.4	19.6	48.9	32.5	48.7	28.3	6.6
Queue Length 50th (ft)	100	60	15	79	69	77	64	202	63	171	33
Queue Length 95th (ft)	#127	108	47	#168	93	107	#148	#270	#160	213	74
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		225
Base Capacity (vph)	458	373	555	312	708	580	222	1470	220	1469	868
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.91	0.38	0.21	0.56	0.43	0.41	0.65	0.86	0.65	0.75	0.33

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2011 Alternate 3 AM PK LOS

3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	307	136	108	155	251	178	120	1049	53	126	970	250
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	25		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.932				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		117				7		11				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	415	140	117	174	302	237	145	1192	65	143	1102	284
Shared Lane Traffic (%)												
Lane Group Flow (vph)	415	257	0	174	302	237	145	1257	0	143	1102	284
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2011 Alternate 3 AM PK LOS

3: Decubellis & Little Road

7/31/2011

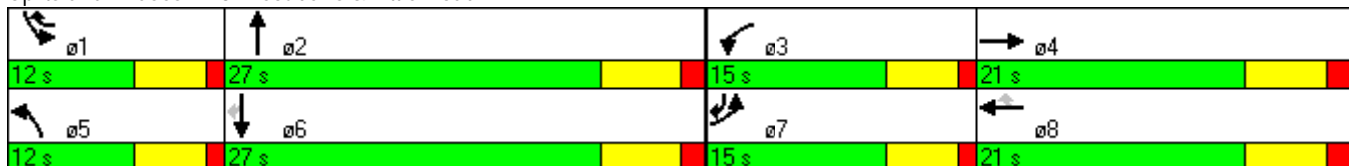


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	15.0	21.0	0.0	15.0	21.0	12.0	12.0	27.0	0.0	12.0	27.0	15.0
Total Split (%)	20.0%	28.0%	0.0%	20.0%	28.0%	16.0%	16.0%	36.0%	0.0%	16.0%	36.0%	20.0%
Maximum Green (s)	10.0	15.0		10.0	15.0	7.0	7.0	21.0		7.0	21.0	10.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	10.0	12.2		9.7	11.9	27.3	9.4	21.7		9.4	21.7	37.7
Actuated g/C Ratio	0.13	0.16		0.13	0.16	0.36	0.13	0.29		0.13	0.29	0.50
v/c Ratio	0.91	0.40		0.76	0.54	0.41	0.65	0.86		0.65	0.75	0.33
Control Delay	58.3	16.8		54.5	32.5	19.6	48.6	32.5		48.4	28.3	6.6
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	58.3	16.8		54.5	32.5	19.6	48.6	32.5		48.4	28.3	6.6
LOS	E	B		D	C	B	D	C		D	C	A
Approach Delay		42.5			33.6			34.2			26.1	
Approach LOS		D			C			C			C	

Intersection Summary

Area Type: Other
 Cycle Length: 75
 Actuated Cycle Length: 75
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.91
 Intersection Signal Delay: 32.5 Intersection LOS: C
 Intersection Capacity Utilization 63.9% ICU Level of Service B
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	415	257	174	302	237	145	1257	143	1102	284
v/c Ratio	0.91	0.40	0.76	0.54	0.41	0.65	0.86	0.65	0.75	0.33
Control Delay	58.3	16.8	54.5	32.5	19.6	48.6	32.5	48.4	28.3	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	16.8	54.5	32.5	19.6	48.6	32.5	48.4	28.3	6.6
Queue Length 50th (ft)	100	30	79	69	77	64	202	63	171	33
Queue Length 95th (ft)	#127	60	#168	93	107	#146	#270	#158	213	74
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		225
Base Capacity (vph)	458	753	236	708	580	223	1470	221	1469	868
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.91	0.34	0.74	0.43	0.41	0.65	0.86	0.65	0.75	0.33

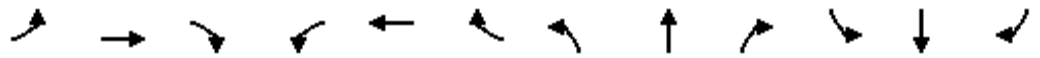
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2016 BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗		↖	↗		↖	↗	
Volume (vph)	383	169	134	277	448	318	137	1201	61	159	1223	315
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.932			0.934			0.992			0.969	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3299	0	1770	3306	0	1770	5045	0	1770	4928	0
Flt Permitted	0.148			0.558			0.950			0.950		
Satd. Flow (perm)	276	3299	0	1039	3306	0	1770	5045	0	1770	4928	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		146			161			8			62	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	518	174	146	311	540	424	165	1365	75	181	1390	358
Shared Lane Traffic (%)												
Lane Group Flow (vph)	518	320	0	311	964	0	165	1440	0	181	1748	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								
Detector Phase	7	4		3	8		5	2		1	6	

2016 BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011

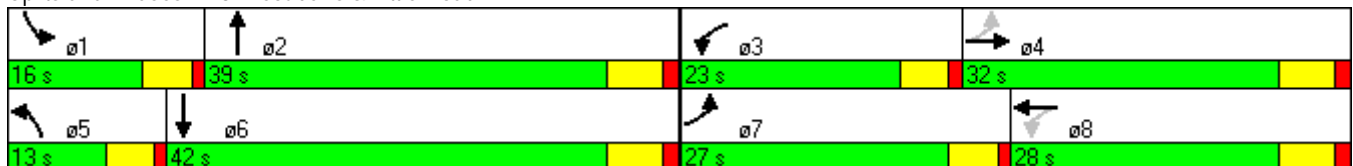


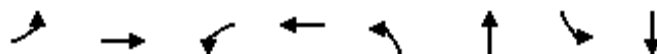
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	27.0	32.0	0.0	23.0	28.0	0.0	13.0	39.0	0.0	16.0	42.0	0.0
Total Split (%)	24.5%	29.1%	0.0%	20.9%	25.5%	0.0%	11.8%	35.5%	0.0%	14.5%	38.2%	0.0%
Maximum Green (s)	22.0	26.0		18.0	22.0		8.0	33.0		11.0	36.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	49.4	27.6		39.4	22.0		8.0	33.0		11.0	36.0	
Actuated g/C Ratio	0.45	0.25		0.36	0.20		0.07	0.30		0.10	0.33	
v/c Ratio	1.22	0.34		0.65	1.22		1.28	0.95		1.02	1.06	
Control Delay	150.1	19.5		27.7	142.9		214.0	51.5		123.4	73.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	150.1	19.5		27.7	142.9		214.0	51.5		123.4	73.8	
LOS	F	B		C	F		F	D		F	E	
Approach Delay		100.2			114.8			68.2			78.5	
Approach LOS		F			F			E			E	

Intersection Summary

Area Type: Other
 Cycle Length: 110
 Actuated Cycle Length: 110
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 110
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.28
 Intersection Signal Delay: 87.0
 Intersection LOS: F
 Intersection Capacity Utilization 100.4%
 ICU Level of Service G
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	518	320	311	964	165	1440	181	1748
v/c Ratio	1.22	0.34	0.65	1.22	1.28	0.95	1.02	1.06
Control Delay	150.1	19.5	27.7	142.9	214.0	51.5	123.4	73.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	150.1	19.5	27.7	142.9	214.0	51.5	123.4	73.8
Queue Length 50th (ft)	~403	52	141	~392	~148	361	~136	~486
Queue Length 95th (ft)	#439	92	210	#453	#254	#442	#269	#560
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	423	937	507	790	129	1519	177	1655
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.22	0.34	0.61	1.22	1.28	0.95	1.02	1.06

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2016 Alternate 1 AM PK Ios
3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	382	169	134	277	448	318	137	1201	61	159	1223	315
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		250	335		0	440		250
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.932				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1736	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1736	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		40				5		9				60
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	516	174	146	311	540	424	165	1365	75	181	1390	358
Shared Lane Traffic (%)												
Lane Group Flow (vph)	516	320	0	311	540	424	165	1440	0	181	1390	358
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2016 Alternate 1 AM PK Ios
3: Decubellis & Little Road

7/31/2011

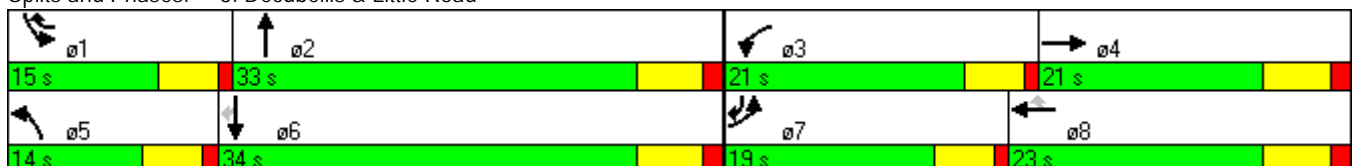


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	19.0	21.0	0.0	21.0	23.0	15.0	14.0	33.0	0.0	15.0	34.0	19.0
Total Split (%)	21.1%	23.3%	0.0%	23.3%	25.6%	16.7%	15.6%	36.7%	0.0%	16.7%	37.8%	21.1%
Maximum Green (s)	14.0	15.0		16.0	17.0	10.0	9.0	27.0		10.0	28.0	14.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	14.0	15.0		16.0	17.0	33.0	9.0	27.0		10.0	28.0	48.0
Actuated g/C Ratio	0.16	0.17		0.18	0.19	0.37	0.10	0.30		0.11	0.31	0.53
v/c Ratio	0.97	0.99		0.99	0.81	0.73	0.93	0.95		0.92	0.88	0.41
Control Delay	70.8	82.9		86.8	45.8	32.9	94.8	45.0		88.0	37.2	11.9
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	70.8	82.9		86.8	45.8	32.9	94.8	45.0		88.0	37.2	11.9
LOS	E	F		F	D	C	F	D		F	D	B
Approach Delay		75.4			51.5			50.1			37.3	
Approach LOS		E			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.99
 Intersection Signal Delay: 49.8 Intersection LOS: D
 Intersection Capacity Utilization 84.1% ICU Level of Service E
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2016 Alternate 1 AM PK Ios
 3: Decubellis & Little Road

7/31/2011



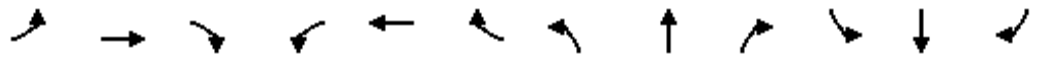
Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	516	320	311	540	424	165	1440	181	1390	358
v/c Ratio	0.97	0.99	0.99	0.81	0.73	0.93	0.95	0.92	0.88	0.41
Control Delay	70.8	82.9	86.8	45.8	32.9	94.8	45.0	88.0	37.2	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.8	82.9	86.8	45.8	32.9	94.8	45.0	88.0	37.2	11.9
Queue Length 50th (ft)	152	162	178	155	203	95	290	104	272	93
Queue Length 95th (ft)	#177	#334	#338	194	240	#191	#373	#220	322	151
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		250	335		440		250
Base Capacity (vph)	534	323	315	668	584	177	1520	197	1582	872
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.97	0.99	0.99	0.81	0.73	0.93	0.95	0.92	0.88	0.41

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2016 Alternate 2 AM PK LOS
3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	382	169	134	277	448	318	137	1201	61	159	1223	315
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.992				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			38			5		9				60
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	516	174	146	311	540	424	165	1365	75	181	1390	358
Shared Lane Traffic (%)												
Lane Group Flow (vph)	516	174	146	311	540	424	165	1440	0	181	1390	358
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4	5	3	8	1	5	2		1	6	7
Permitted Phases			4			8						6
Detector Phase	7	4	5	3	8	1	5	2		1	6	7

2016 Alternate 2 AM PK LOS
3: Decubellis & Little Road

7/31/2011

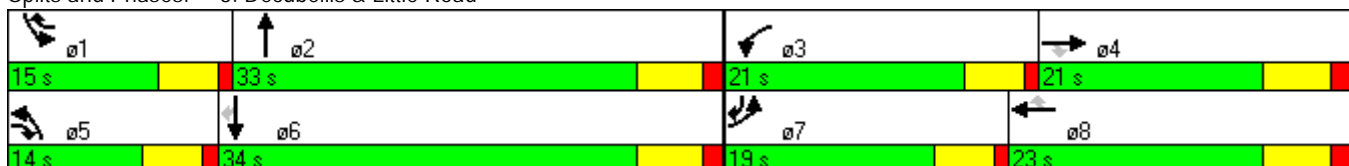


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	19.0	21.0	14.0	21.0	23.0	15.0	14.0	33.0	0.0	15.0	34.0	19.0
Total Split (%)	21.1%	23.3%	15.6%	23.3%	25.6%	16.7%	15.6%	36.7%	0.0%	16.7%	37.8%	21.1%
Maximum Green (s)	14.0	15.0	9.0	16.0	17.0	10.0	9.0	27.0		10.0	28.0	14.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	14.0	14.5	30.0	16.0	16.5	32.8	9.5	27.2		10.3	28.0	48.0
Actuated g/C Ratio	0.16	0.16	0.33	0.18	0.18	0.36	0.11	0.30		0.11	0.31	0.53
v/c Ratio	0.97	0.58	0.26	0.99	0.83	0.73	0.89	0.94		0.89	0.88	0.41
Control Delay	70.8	43.2	17.6	86.8	47.9	33.1	84.5	44.1		81.6	37.1	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	70.8	43.2	17.6	86.8	47.9	33.1	84.5	44.1		81.6	37.1	11.9
LOS	E	D	B	F	D	C	F	D		F	D	B
Approach Delay		55.7			52.5			48.3			36.6	
Approach LOS		E			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.99
 Intersection Signal Delay: 46.3 Intersection LOS: D
 Intersection Capacity Utilization 75.9% ICU Level of Service D
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2016 Alternate 2 AM PK LOS
 3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	516	174	146	311	540	424	165	1440	181	1390	358
v/c Ratio	0.97	0.58	0.26	0.99	0.83	0.73	0.89	0.94	0.89	0.88	0.41
Control Delay	70.8	43.2	17.6	86.8	47.9	33.1	84.5	44.1	81.6	37.1	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.8	43.2	17.6	86.8	47.9	33.1	84.5	44.1	81.6	37.1	11.9
Queue Length 50th (ft)	152	92	44	178	155	203	95	290	104	272	93
Queue Length 95th (ft)	#177	158	90	#338	194	240	#191	#373	#220	322	151
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		225
Base Capacity (vph)	534	311	552	315	668	581	186	1529	204	1584	873
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.97	0.56	0.26	0.99	0.81	0.73	0.89	0.94	0.89	0.88	0.41

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2016 Alternate 3 AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔↔	↕↔		↔	↕↕	↔	↔	↕↕↔		↔	↕↕↕	↔
Volume (vph)	382	169	134	277	448	318	137	1201	61	159	1223	315
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		150
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	25		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.932				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		146				5		9				60
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	516	174	146	311	540	424	165	1365	75	181	1390	358
Shared Lane Traffic (%)												
Lane Group Flow (vph)	516	320	0	311	540	424	165	1440	0	181	1390	358
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2016 Alternate 3 AM PK LOS

3: Decubellis & Little Road

7/26/2011

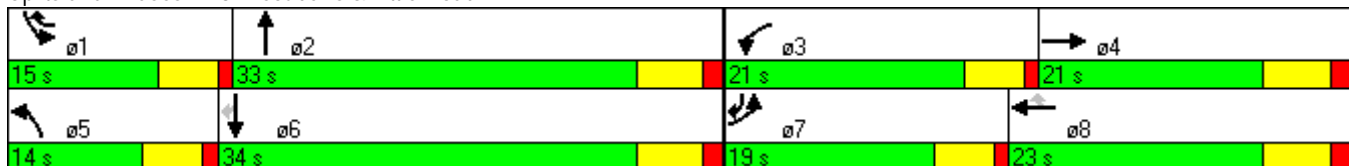


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	19.0	21.0	0.0	21.0	23.0	15.0	14.0	33.0	0.0	15.0	34.0	19.0
Total Split (%)	21.1%	23.3%	0.0%	23.3%	25.6%	16.7%	15.6%	36.7%	0.0%	16.7%	37.8%	21.1%
Maximum Green (s)	14.0	15.0		16.0	17.0	10.0	9.0	27.0		10.0	28.0	14.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	14.0	14.5		16.0	16.5	32.8	9.5	27.2		10.3	28.0	48.0
Actuated g/C Ratio	0.16	0.16		0.18	0.18	0.36	0.11	0.30		0.11	0.31	0.53
v/c Ratio	0.97	0.49		0.99	0.83	0.73	0.89	0.94		0.89	0.88	0.41
Control Delay	70.8	21.0		86.8	47.9	33.1	84.5	44.1		81.6	37.1	11.9
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	70.8	21.0		86.8	47.9	33.1	84.5	44.1		81.6	37.1	11.9
LOS	E	C		F	D	C	F	D		F	D	B
Approach Delay		51.7			52.5			48.3			36.6	
Approach LOS		D			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.99
 Intersection Signal Delay: 45.7
 Intersection LOS: D
 Intersection Capacity Utilization 76.0%
 ICU Level of Service D
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	516	320	311	540	424	165	1440	181	1390	358
v/c Ratio	0.97	0.49	0.99	0.83	0.73	0.89	0.94	0.89	0.88	0.41
Control Delay	70.8	21.0	86.8	47.9	33.1	84.5	44.1	81.6	37.1	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.8	21.0	86.8	47.9	33.1	84.5	44.1	81.6	37.1	11.9
Queue Length 50th (ft)	152	46	178	155	203	95	290	104	272	93
Queue Length 95th (ft)	#177	86	#338	194	240	#191	#373	#220	322	151
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		150
Base Capacity (vph)	534	672	315	668	581	186	1529	204	1584	873
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.97	0.48	0.99	0.81	0.73	0.89	0.94	0.89	0.88	0.41

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2035 PROJECTED BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	667	296	235	739	1197	849	204	1781	90	284	2184	563
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.932			0.934			0.992				0.969
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3299	0	1770	3306	0	1770	5045	0	1770	4928	0
Flt Permitted	0.267			0.267			0.950			0.950		
Satd. Flow (perm)	497	3299	0	497	3306	0	1770	5045	0	1770	4928	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		111			105			7				54
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	901	305	255	830	1442	1132	246	2024	111	323	2482	640
Shared Lane Traffic (%)												
Lane Group Flow (vph)	901	560	0	830	2574	0	246	2135	0	323	3122	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								
Detector Phase	7	4		3	8		5	2		1	6	

2035 PROJECTED BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011

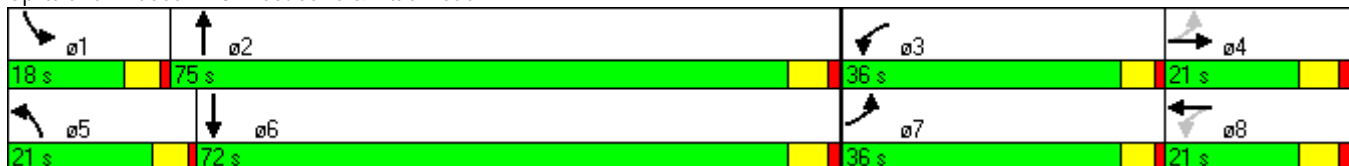


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	36.0	21.0	0.0	36.0	21.0	0.0	21.0	75.0	0.0	18.0	72.0	0.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	0.0%	14.0%	50.0%	0.0%	12.0%	48.0%	0.0%
Maximum Green (s)	31.0	15.0		31.0	15.0		16.0	69.0		13.0	66.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	47.0	15.0		47.0	15.0		16.0	69.0		13.0	66.0	
Actuated g/C Ratio	0.31	0.10		0.31	0.10		0.11	0.46		0.09	0.44	
v/c Ratio	2.15	1.30		1.98	6.06		1.30	0.92		2.11	1.42	
Control Delay	550.0	192.3		476.2	2290.1		218.7	45.3		551.8	224.4	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	550.0	192.3		476.2	2290.1		218.7	45.3		551.8	224.4	
LOS	F	F		F	F		F	D		F	F	
Approach Delay		412.9			1847.8			63.2			255.1	
Approach LOS		F			F			E			F	

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 6.06
 Intersection Signal Delay: 741.1
 Intersection LOS: F
 Intersection Capacity Utilization 181.7%
 ICU Level of Service H
 Analysis Period (min) 15

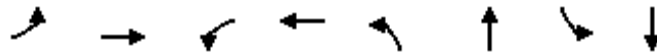
Splits and Phases: 3: Decubellis & Little Road



2035 PROJECTED BASE MODEL AM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	901	560	830	2574	246	2135	323	3122
v/c Ratio	2.15	1.30	1.98	6.06	1.30	0.92	2.11	1.42
Control Delay	550.0	192.3	476.2	2290.1	218.7	45.3	551.8	224.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	550.0	192.3	476.2	2290.1	218.7	45.3	551.8	224.4
Queue Length 50th (ft)	~1361	~315	~1215	~2500	~308	703	~500	~1500
Queue Length 95th (ft)	#1248	#441	#1451	#2394	#435	745	#680	#1516
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	419	430	419	425	189	2324	153	2199
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	2.15	1.30	1.98	6.06	1.30	0.92	2.11	1.42

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2035 Alternate 1 AM PK Projected los
3: Decubellis & Little Road

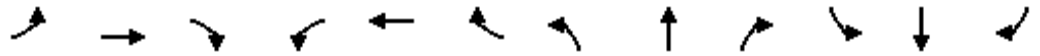
7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	667	286	235	739	1197	849	204	1781	90	284	2184	563
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		150	335		0	440		150
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.930				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1732	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1732	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		23				2		7				23
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	901	295	255	830	1442	1132	246	2024	111	323	2482	640
Shared Lane Traffic (%)												
Lane Group Flow (vph)	901	550	0	830	1442	1132	246	2135	0	323	2482	640
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2035 Alternate 1 AM PK Projected los
3: Decubellis & Little Road

7/26/2011

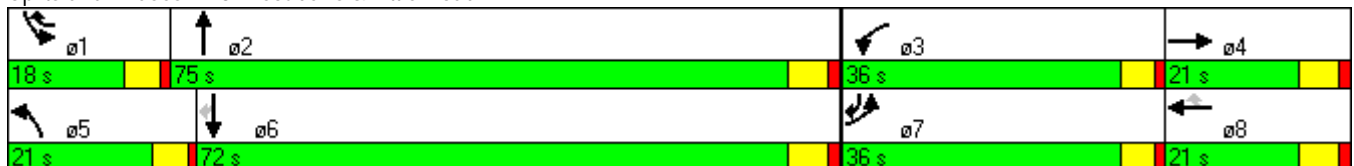


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	36.0	21.0		36.0	21.0	18.0	21.0	75.0		18.0	72.0	36.0
Total Split (s)	36.0	21.0	0.0	36.0	21.0	18.0	21.0	75.0	0.0	18.0	72.0	36.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	12.0%	14.0%	50.0%	0.0%	12.0%	48.0%	24.0%
Maximum Green (s)	31.0	15.0		31.0	15.0	13.0	16.0	69.0		13.0	66.0	31.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	31.0	15.0		31.0	15.0	34.0	16.0	69.0		13.0	66.0	103.0
Actuated g/C Ratio	0.21	0.10		0.21	0.10	0.23	0.11	0.46		0.09	0.44	0.69
v/c Ratio	1.27	2.84		2.27	4.07	3.14	1.30	0.92		2.11	1.11	0.59
Control Delay	179.7	861.0		605.5	1404.9	991.1	218.7	45.3		551.8	95.8	14.4
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	179.7	861.0		605.5	1404.9	991.1	218.7	45.3		551.8	95.8	14.4
LOS	F	F		F	F	F	F	D		F	F	B
Approach Delay		437.9			1072.4			63.2			123.4	
Approach LOS		F			F			E			F	

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 4.07
 Intersection Signal Delay: 455.2 Intersection LOS: F
 Intersection Capacity Utilization 142.2% ICU Level of Service H
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 1 AM PK Projected los
 3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	901	550	830	1442	1132	246	2135	323	2482	640
v/c Ratio	1.27	2.84	2.27	4.07	3.14	1.30	0.92	2.11	1.11	0.59
Control Delay	179.7	861.0	605.5	1404.9	991.1	218.7	45.3	551.8	95.8	14.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	179.7	861.0	605.5	1404.9	991.1	218.7	45.3	551.8	95.8	14.4
Queue Length 50th (ft)	~571	~907	~1313	~1350	~1950	~308	703	~500	~1012	294
Queue Length 95th (ft)	#513	#1144	#1546	#1360	#1786	#435	745	#680	#1053	385
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		150
Base Capacity (vph)	709	194	366	354	360	189	2324	153	2237	1094
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.27	2.84	2.27	4.07	3.14	1.30	0.92	2.11	1.11	0.59

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2035 Alternate 2 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	667	296	235	739	1197	849	204	1781	90	284	2184	563
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		150
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.992				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			6					6				183
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	901	305	255	830	1442	1132	246	2024	111	323	2482	640
Shared Lane Traffic (%)												
Lane Group Flow (vph)	901	305	255	830	1442	1132	246	2135	0	323	2482	640
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		Prot
Protected Phases	7	4	5	3	8	1	5	2		1	6	6
Permitted Phases			4			8						
Detector Phase	7	4	5	3	8	1	5	2		1	6	6

2035 Alternate 2 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011

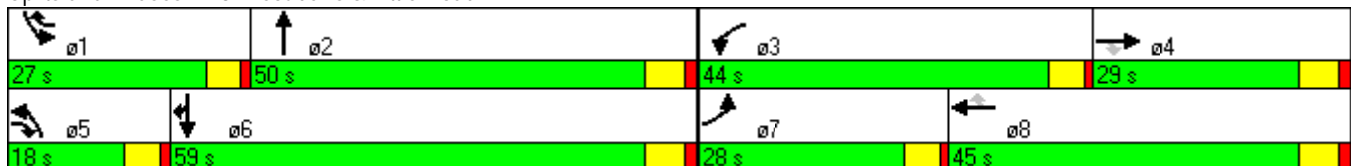


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	20.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	26.0
Total Split (s)	28.0	29.0	18.0	44.0	45.0	27.0	18.0	50.0	0.0	27.0	59.0	59.0
Total Split (%)	18.7%	19.3%	12.0%	29.3%	30.0%	18.0%	12.0%	33.3%	0.0%	18.0%	39.3%	39.3%
Maximum Green (s)	23.0	23.0	13.0	39.0	39.0	22.0	13.0	44.0		22.0	53.0	53.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.5
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	6.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	4.0
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	11.0
Pedestrian Calls (#/hr)		0			0			0			0	0
Act Effect Green (s)	23.0	23.0	42.0	39.0	39.0	67.0	13.0	44.0		22.0	53.0	53.0
Actuated g/C Ratio	0.15	0.15	0.28	0.26	0.26	0.45	0.09	0.29		0.15	0.35	0.35
v/c Ratio	1.71	1.07	0.57	1.80	1.57	1.60	1.61	1.44		1.24	1.38	0.94
Control Delay	365.0	130.4	51.0	402.4	297.1	307.4	342.3	239.5		187.8	212.5	56.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	365.0	130.4	51.0	402.4	297.1	307.4	342.3	239.5		187.8	212.5	56.7
LOS	F	F	D	F	F	F	F	F		F	F	E
Approach Delay		261.2			326.2			250.1			181.3	
Approach LOS		F			F			F			F	

Intersection Summary

Area Type:	Other
Cycle Length:	150
Actuated Cycle Length:	150
Offset:	0 (0%), Referenced to phase 2:NBT, Start of Green
Natural Cycle:	150
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	1.80
Intersection Signal Delay:	253.7
Intersection LOS:	F
Intersection Capacity Utilization:	128.4%
ICU Level of Service:	H
Analysis Period (min):	15

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 2 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	901	305	255	830	1442	1132	246	2135	323	2482	640
v/c Ratio	1.71	1.07	0.57	1.80	1.57	1.60	1.61	1.44	1.24	1.38	0.94
Control Delay	365.0	130.4	51.0	402.4	297.1	307.4	342.3	239.5	187.8	212.5	56.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	365.0	130.4	51.0	402.4	297.1	307.4	342.3	239.5	187.8	212.5	56.7
Queue Length 50th (ft)	~667	~329	210	~1217	~1048	~1579	~343	~1039	~392	~1176	473
Queue Length 95th (ft)	#609	#524	308	#1450	#1057	#1417	#471	#1093	#572	#1217	#698
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		150
Base Capacity (vph)	526	286	448	460	920	707	153	1484	260	1797	678
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.71	1.07	0.57	1.80	1.57	1.60	1.61	1.44	1.24	1.38	0.94

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2035 Alternate 3 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖↗	↕		↖	↕↕	↗	↖	↕↕↕		↖	↕↕↕	↗
Volume (vph)	667	296	235	739	1197	849	204	1781	90	284	2184	563
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	50		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Ped Bike Factor												
Frt		0.932				0.850		0.992				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3299	0	1770	3539	1583	1770	5045	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		118						6				7
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%				0%
Adj. Flow (vph)	901	305	255	830	1442	1132	246	2024	111	323	2482	640
Shared Lane Traffic (%)												
Lane Group Flow (vph)	901	560	0	830	1442	1132	246	2135	0	323	2482	640
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0

2035 Alternate 3 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	28.0	29.0	0.0	44.0	45.0	27.0	18.0	50.0	0.0	27.0	59.0	28.0
Total Split (%)	18.7%	19.3%	0.0%	29.3%	30.0%	18.0%	12.0%	33.3%	0.0%	18.0%	39.3%	18.7%
Maximum Green (s)	23.0	23.0		39.0	39.0	22.0	13.0	44.0		22.0	53.0	23.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	23.0	23.0		39.0	39.0	67.0	13.0	44.0		22.0	53.0	82.0
Actuated g/C Ratio	0.15	0.15		0.26	0.26	0.45	0.09	0.29		0.15	0.35	0.55
v/c Ratio	1.71	0.92		1.80	1.57	1.60	1.61	1.44		1.24	1.38	0.74
Control Delay	365.0	71.0		402.4	297.1	307.4	342.3	239.5		187.8	212.5	31.9
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	365.0	71.0		402.4	297.1	307.4	342.3	239.5		187.8	212.5	31.9
LOS	F	E		F	F	F	F	F		F	F	C
Approach Delay		252.3			326.2			250.1			176.6	
Approach LOS		F			F			F			F	
Stops (vph)	447	395		483	840	584	142	1378		226	1653	420
Fuel Used(gal)	65	20		70	87	64	18	129		16	133	14
CO Emissions (g/hr)	4520	1389		4867	6111	4454	1279	9023		1114	9302	948
NOx Emissions (g/hr)	879	270		947	1189	867	249	1756		217	1810	185
VOC Emissions (g/hr)	1048	322		1128	1416	1032	296	2091		258	2156	220
Dilemma Vehicles (#)	0	0		0	0	0	0	0		0	0	0
Queue Length 50th (ft)	~667	232		~1217	~1048	~1579	~343	~1039		~392	~1176	457
Queue Length 95th (ft)	#609	#344		#1450	#1057	#1417	#471	#1093		#572	#1217	597
Internal Link Dist (ft)		2348			1033			1993			1650	
Turn Bay Length (ft)	360			240		150	335			440		225
Base Capacity (vph)	526	606		460	920	707	153	1484		260	1797	869
Starvation Cap Reductn	0	0		0	0	0	0	0		0	0	0
Spillback Cap Reductn	0	0		0	0	0	0	0		0	0	0
Storage Cap Reductn	0	0		0	0	0	0	0		0	0	0
Reduced v/c Ratio	1.71	0.92		1.80	1.57	1.60	1.61	1.44		1.24	1.38	0.74

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150

2035 Alternate 3 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.80

Intersection Signal Delay: 251.0

Intersection LOS: F

Intersection Capacity Utilization 128.5%

ICU Level of Service H

Analysis Period (min) 15

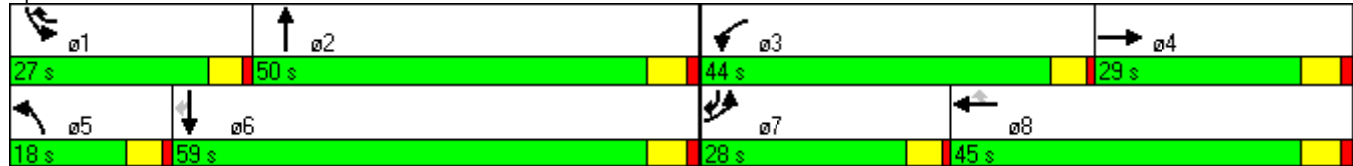
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 3 AM PK Projected LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	901	560	830	1442	1132	246	2135	323	2482	640
v/c Ratio	1.71	0.92	1.80	1.57	1.60	1.61	1.44	1.24	1.38	0.74
Control Delay	365.0	71.0	402.4	297.1	307.4	342.3	239.5	187.8	212.5	31.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	365.0	71.0	402.4	297.1	307.4	342.3	239.5	187.8	212.5	31.9
Queue Length 50th (ft)	~667	232	~1217	~1048	~1579	~343	~1039	~392	~1176	457
Queue Length 95th (ft)	#609	#344	#1450	#1057	#1417	#471	#1093	#572	#1217	597
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		225
Base Capacity (vph)	526	606	460	920	707	153	1484	260	1797	869
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.71	0.92	1.80	1.57	1.60	1.61	1.44	1.24	1.38	0.74

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

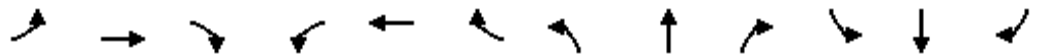
PM PEAK HOUR SYNCHRO REPORTS

Description	Page No.
2011 Base Model PM PK LOS and Queue Analysis	1-3
2011 Alternative 1 PM PK LOS and Queue Analysis	4-6
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2035 Alternative 3 PM PK LOS and Queue Analysis	34-36

BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011

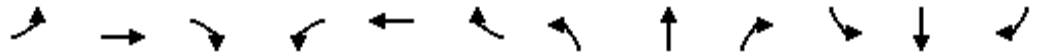


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗		↖	↗		↖	↗	
Volume (vph)	355	194	102	136	153	159	153	916	68	106	971	316
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.946			0.920			0.989			0.963	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3348	0	1770	3256	0	1770	5029	0	1770	4897	0
Flt Permitted	0.200			0.517			0.950			0.950		
Satd. Flow (perm)	373	3348	0	963	3256	0	1770	5029	0	1770	4897	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		57			150			11			70	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%
Adj. Flow (vph)	614	256	142	196	236	271	236	1332	107	154	1412	460
Shared Lane Traffic (%)												
Lane Group Flow (vph)	614	398	0	196	507	0	236	1439	0	154	1872	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								

BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	7	4		3	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	36.0	21.0	0.0	36.0	21.0	0.0	21.0	75.0	0.0	18.0	72.0	0.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	0.0%	14.0%	50.0%	0.0%	12.0%	48.0%	0.0%
Maximum Green (s)	31.0	15.0		31.0	15.0		16.0	69.0		13.0	66.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	52.0	28.1		33.9	15.0		16.0	69.0		13.0	66.0	
Actuated g/C Ratio	0.35	0.19		0.23	0.10		0.11	0.46		0.09	0.44	
v/c Ratio	1.47	0.59		0.62	1.10		1.25	0.62		1.01	0.85	
Control Delay	257.1	52.5		46.7	113.9		200.2	31.8		140.8	40.9	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	257.1	52.5		46.7	113.9		200.2	31.8		140.8	40.9	
LOS	F	D		D	F		F	C		F	D	
Approach Delay		176.7			95.2			55.5			48.5	
Approach LOS		F			F			E			D	

Intersection Summary

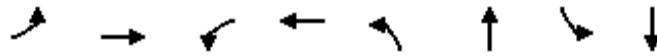
Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 130
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.47
 Intersection Signal Delay: 80.7
 Intersection LOS: F
 Intersection Capacity Utilization 99.4%
 ICU Level of Service F
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



BASE MODEL PM PK LOS
3: Decubellis & Little Road

7/25/2011



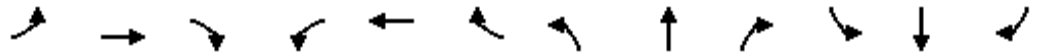
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	614	398	196	507	236	1439	154	1872
v/c Ratio	1.47	0.59	0.62	1.10	1.25	0.62	1.01	0.85
Control Delay	257.1	52.5	46.7	113.9	200.2	31.8	140.8	40.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	257.1	52.5	46.7	113.9	200.2	31.8	140.8	40.9
Queue Length 50th (ft)	~773	162	141	~222	~287	381	~154	577
Queue Length 95th (ft)	#748	233	208	#291	#415	418	#299	620
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	418	674	469	461	189	2319	153	2194
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.47	0.59	0.42	1.10	1.25	0.62	1.01	0.85

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Alternate 1 PM PK Ios
3: Decubellis & Little Road

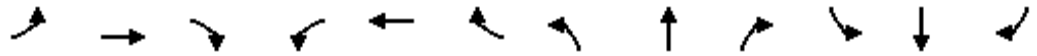
7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	355	194	102	136	153	159	153	916	68	106	971	316
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		250	335		0	440		225
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		29				5		15				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%
Adj. Flow (vph)	614	256	142	196	236	271	236	1332	107	154	1412	460
Shared Lane Traffic (%)												
Lane Group Flow (vph)	614	398	0	196	236	271	236	1439	0	154	1412	460
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6

Alternate 1 PM PK Ios
3: Decubellis & Little Road

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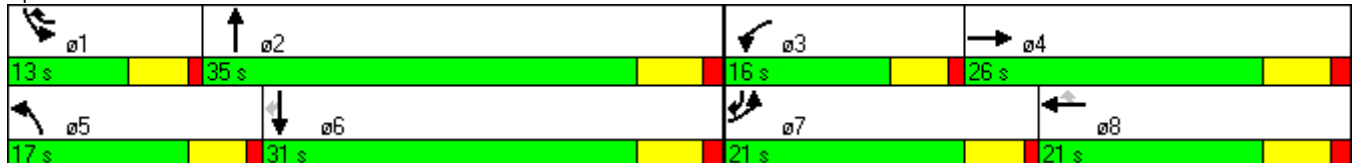


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	7	4		3	8	1	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	21.0	26.0	0.0	16.0	21.0	13.0	17.0	35.0	0.0	13.0	31.0	21.0
Total Split (%)	23.3%	28.9%	0.0%	17.8%	23.3%	14.4%	18.9%	38.9%	0.0%	14.4%	34.4%	23.3%
Maximum Green (s)	16.0	20.0		11.0	15.0	8.0	12.0	29.0		8.0	25.0	16.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	16.0	20.0		11.0	15.0	29.0	12.0	29.0		8.0	25.0	47.0
Actuated g/C Ratio	0.18	0.22		0.12	0.17	0.32	0.13	0.32		0.09	0.28	0.52
v/c Ratio	1.01	0.96		0.91	0.40	0.53	1.00	0.88		0.98	1.00	0.51
Control Delay	76.5	69.6		82.5	35.8	29.0	100.2	36.4		110.9	57.3	11.5
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	76.5	69.6		82.5	35.8	29.0	100.2	36.4		110.9	57.3	11.5
LOS	E	E		F	D	C	F	D		F	E	B
Approach Delay		73.8			46.2			45.4			51.0	
Approach LOS		E			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.01
 Intersection Signal Delay: 52.9
 Intersection LOS: D
 Intersection Capacity Utilization 83.9%
 ICU Level of Service E
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



Alternate 1 PM PK Ios
3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	614	398	196	236	271	236	1439	154	1412	460
v/c Ratio	1.01	0.96	0.91	0.40	0.53	1.00	0.88	0.98	1.00	0.51
Control Delay	76.5	69.6	82.5	35.8	29.0	100.2	36.4	110.9	57.3	11.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.5	69.6	82.5	35.8	29.0	100.2	36.4	110.9	57.3	11.5
Queue Length 50th (ft)	~183	210	112	63	122	136	278	89	293	105
Queue Length 95th (ft)	#209	#393	#234	91	158	#252	329	#204	#385	178
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		250	335		440		225
Base Capacity (vph)	610	414	216	590	513	236	1631	157	1413	897
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.01	0.96	0.91	0.40	0.53	1.00	0.88	0.98	1.00	0.51

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Alternate 2 PM PK LOS
3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖↗	↑	↖	↖	↑↑	↖	↖	↑↑↑		↖	↑↑↑	↖
Volume (vph)	355	194	102	136	153	159	153	916	68	106	971	316
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.989				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			64			5		15				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%
Adj. Flow (vph)	614	256	142	196	236	271	236	1332	107	154	1412	460
Shared Lane Traffic (%)												
Lane Group Flow (vph)	614	256	142	196	236	271	236	1439	0	154	1412	460
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4	5	3	8	1	5	2		1	6	7
Permitted Phases			4			8						6

Alternate 2 PM PK LOS
3: Decubellis & Little Road

7/25/2011

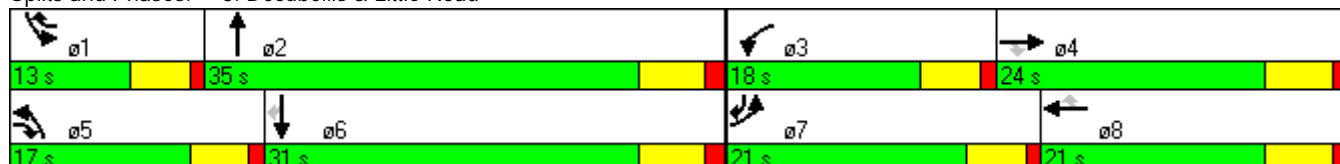


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	7	4	5	3	8	1	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	21.0	24.0	17.0	18.0	21.0	13.0	17.0	35.0	0.0	13.0	31.0	21.0
Total Split (%)	23.3%	26.7%	18.9%	20.0%	23.3%	14.4%	18.9%	38.9%	0.0%	14.4%	34.4%	23.3%
Maximum Green (s)	16.0	18.0	12.0	13.0	15.0	8.0	12.0	29.0		8.0	25.0	16.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	16.0	16.9	36.6	12.4	13.3	28.9	13.7	29.1		9.6	25.0	47.0
Actuated g/C Ratio	0.18	0.19	0.41	0.14	0.15	0.32	0.15	0.32		0.11	0.28	0.52
v/c Ratio	1.01	0.73	0.21	0.80	0.45	0.53	0.88	0.88		0.82	1.00	0.51
Control Delay	76.5	47.6	10.9	62.1	37.5	29.0	71.7	36.2		74.4	57.3	11.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	76.5	47.6	10.9	62.1	37.5	29.0	71.7	36.2		74.4	57.3	11.5
LOS	E	D	B	E	D	C	E	D		E	E	B
Approach Delay		60.0			41.1			41.2			48.2	
Approach LOS		E			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.01
 Intersection Signal Delay: 47.3
 Intersection LOS: D
 Intersection Capacity Utilization 75.9%
 ICU Level of Service D
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



Alternate 2 PM PK LOS
3: Decubellis & Little Road

7/25/2011



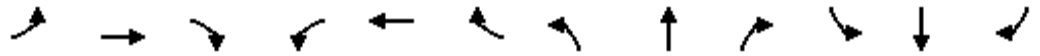
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	614	256	142	196	236	271	236	1439	154	1412	460
v/c Ratio	1.01	0.73	0.21	0.80	0.45	0.53	0.88	0.88	0.82	1.00	0.51
Control Delay	76.5	47.6	10.9	62.1	37.5	29.0	71.7	36.2	74.4	57.3	11.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.5	47.6	10.9	62.1	37.5	29.0	71.7	36.2	74.4	57.3	11.5
Queue Length 50th (ft)	~183	137	27	109	64	122	135	278	89	293	105
Queue Length 95th (ft)	#209	#224	66	#211	91	158	#252	329	#204	#385	178
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		225
Base Capacity (vph)	610	373	681	256	590	512	269	1635	188	1413	897
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.01	0.69	0.21	0.77	0.40	0.53	0.88	0.88	0.82	1.00	0.51

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Alternate 3 PM PK LOS
3: Decubellis & Little Road

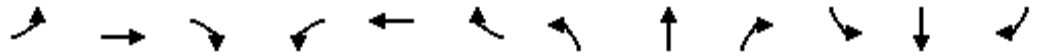
7/31/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔↔	↕↔		↔	↕↕	↔	↔	↕↕↔		↔	↕↕↕	↔
Volume (vph)	355	194	102	136	153	159	153	916	68	106	971	316
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	25		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		106				5		15				147
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%
Adj. Flow (vph)	614	256	142	196	236	271	236	1332	107	154	1412	460
Shared Lane Traffic (%)												
Lane Group Flow (vph)	614	398	0	196	236	271	236	1439	0	154	1412	460
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6

Alternate 3 PM PK LOS
3: Decubellis & Little Road

7/31/2011

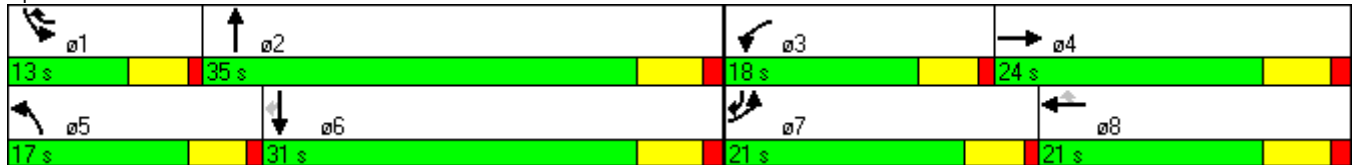


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	7	4		3	8	1	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	21.0	24.0	0.0	18.0	21.0	13.0	17.0	35.0	0.0	13.0	31.0	21.0
Total Split (%)	23.3%	26.7%	0.0%	20.0%	23.3%	14.4%	18.9%	38.9%	0.0%	14.4%	34.4%	23.3%
Maximum Green (s)	16.0	18.0		13.0	15.0	8.0	12.0	29.0		8.0	25.0	16.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	16.0	15.3		12.4	11.8	28.9	15.2	29.1		11.2	25.0	47.0
Actuated g/C Ratio	0.18	0.17		0.14	0.13	0.32	0.17	0.32		0.12	0.28	0.52
v/c Ratio	1.01	0.60		0.80	0.51	0.53	0.79	0.88		0.70	1.00	0.51
Control Delay	76.5	29.2		62.1	40.2	29.0	57.2	36.2		58.0	57.3	11.5
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	76.5	29.2		62.1	40.2	29.0	57.2	36.2		58.0	57.3	11.5
LOS	E	C		E	D	C	E	D		E	E	B
Approach Delay		57.9			42.0			39.2			47.0	
Approach LOS		E			D			D			D	

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 90
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.01
 Intersection Signal Delay: 46.0
 Intersection LOS: D
 Intersection Capacity Utilization 74.5%
 ICU Level of Service D
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



Alternate 3 PM PK LOS
3: Decubellis & Little Road

7/31/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	614	398	196	236	271	236	1439	154	1412	460
v/c Ratio	1.01	0.60	0.80	0.51	0.53	0.79	0.88	0.70	1.00	0.51
Control Delay	76.5	29.2	62.1	40.2	29.0	57.2	36.2	58.0	57.3	11.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.5	29.2	62.1	40.2	29.0	57.2	36.2	58.0	57.3	11.5
Queue Length 50th (ft)	~183	81	109	67	122	129	278	85	293	105
Queue Length 95th (ft)	#209	123	#211	91	158	#252	329	#204	#385	178
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		225
Base Capacity (vph)	610	754	256	590	512	300	1635	220	1413	897
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.01	0.53	0.77	0.40	0.53	0.79	0.88	0.70	1.00	0.51

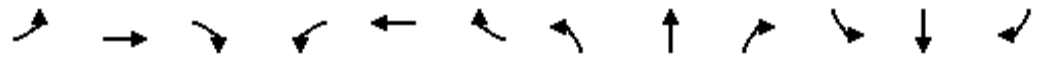
Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2016 BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	565	309	163	314	350	364	224	1342	100	171	1567	509
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.946			0.920			0.989			0.963	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3348	0	1770	3256	0	1770	5029	0	1770	4897	0
Flt Permitted	0.227			0.267			0.950			0.950		
Satd. Flow (perm)	423	3348	0	497	3256	0	1770	5029	0	1770	4897	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		56			139			11			70	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	764	319	177	353	422	485	270	1525	123	194	1781	578
Shared Lane Traffic (%)												
Lane Group Flow (vph)	764	496	0	353	907	0	270	1648	0	194	2359	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								
Detector Phase	7	4		3	8		5	2		1	6	

2016 BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011



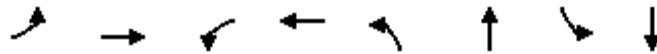
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	36.0	21.0	0.0	36.0	21.0	0.0	21.0	75.0	0.0	18.0	72.0	0.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	0.0%	14.0%	50.0%	0.0%	12.0%	48.0%	0.0%
Maximum Green (s)	31.0	15.0		31.0	15.0		16.0	69.0		13.0	66.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	48.7	17.6		44.4	15.0		16.0	69.0		13.0	66.0	
Actuated g/C Ratio	0.32	0.12		0.30	0.10		0.11	0.46		0.09	0.44	
v/c Ratio	1.84	1.12		0.91	2.01		1.43	0.71		1.27	1.08	
Control Delay	414.3	131.4		69.5	489.3		265.9	34.4		214.1	82.0	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	414.3	131.4		69.5	489.3		265.9	34.4		214.1	82.0	
LOS	F	F		E	F		F	C		F	F	
Approach Delay		302.9			371.7			67.0			92.0	
Approach LOS		F			F			E			F	

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 140
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 2.01
 Intersection Signal Delay: 173.6
 Intersection LOS: F
 Intersection Capacity Utilization 125.1%
 ICU Level of Service H
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	764	496	353	907	270	1648	194	2359
v/c Ratio	1.84	1.12	0.91	2.01	1.43	0.71	1.27	1.08
Control Delay	414.3	131.4	69.5	489.3	265.9	34.4	214.1	82.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	414.3	131.4	69.5	489.3	265.9	34.4	214.1	82.0
Queue Length 50th (ft)	~1096	~297	282	~665	~356	464	~238	~924
Queue Length 95th (ft)	#1026	#418	#430	#717	#486	503	#390	#970
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	416	442	419	451	189	2319	153	2194
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.84	1.12	0.84	2.01	1.43	0.71	1.27	1.08

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2016 Alternate 1 PM PK Ios
3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	565	309	163	314	350	364	224	1342	100	171	1567	509
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		250	335		0	440		250
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		18				7		10				44
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	764	319	177	353	422	485	270	1525	123	194	1781	578
Shared Lane Traffic (%)												
Lane Group Flow (vph)	764	496	0	353	422	485	270	1648	0	194	1781	578
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2016 Alternate 1 PM PK Ios
3: Decubellis & Little Road

7/25/2011

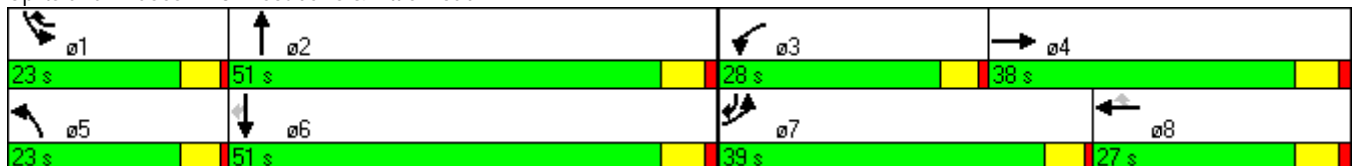


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	39.0	38.0	0.0	28.0	27.0	23.0	23.0	51.0	0.0	23.0	51.0	39.0
Total Split (%)	27.9%	27.1%	0.0%	20.0%	19.3%	16.4%	16.4%	36.4%	0.0%	16.4%	36.4%	27.9%
Maximum Green (s)	34.0	32.0		23.0	21.0	18.0	18.0	45.0		18.0	45.0	34.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	33.6	32.0		23.0	21.4	44.8	18.0	45.5		17.5	45.0	84.6
Actuated g/C Ratio	0.24	0.23		0.16	0.15	0.32	0.13	0.32		0.12	0.32	0.60
v/c Ratio	0.93	1.19		1.21	0.78	0.95	1.18	1.00		0.88	1.09	0.59
Control Delay	69.8	151.3		171.5	68.2	74.4	169.5	69.6		95.6	95.5	18.6
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	69.8	151.3		171.5	68.2	74.4	169.5	69.6		95.6	95.5	18.6
LOS	E	F		F	E	E	F	E		F	F	B
Approach Delay		101.9			99.5			83.6			78.1	
Approach LOS		F			F			F			E	

Intersection Summary

Area Type: Other
 Cycle Length: 140
 Actuated Cycle Length: 140
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 140
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.21
 Intersection Signal Delay: 87.8 Intersection LOS: F
 Intersection Capacity Utilization 104.6% ICU Level of Service G
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road



2016 Alternate 1 PM PK Ios
3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	764	496	353	422	485	270	1648	194	1781	578
v/c Ratio	0.93	1.19	1.21	0.78	0.95	1.18	1.00	0.88	1.09	0.59
Control Delay	69.8	151.3	171.5	68.2	74.4	169.5	69.6	95.6	95.5	18.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	69.8	151.3	171.5	68.2	74.4	169.5	69.6	95.6	95.5	18.6
Queue Length 50th (ft)	352	~532	~392	197	426	~295	~576	176	~667	284
Queue Length 95th (ft)	335	#759	#583	236	448	#424	#647	#301	#733	383
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		250	335		440		250
Base Capacity (vph)	834	417	291	541	518	228	1642	228	1634	978
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	1.19	1.21	0.78	0.94	1.18	1.00	0.85	1.09	0.59

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2016 Alternate 2 PM PK LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔↔	↑	↗	↖	↕↕	↗	↖	↕↕↔		↖	↕↕↕	↗
Volume (vph)	565	309	163	314	350	364	224	1342	100	171	1567	509
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.989				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			31			5		11				48
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	764	319	177	353	422	485	270	1525	123	194	1781	578
Shared Lane Traffic (%)												
Lane Group Flow (vph)	764	319	177	353	422	485	270	1648	0	194	1781	578
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4	5	3	8	1	5	2		1	6	7
Permitted Phases			4			8						6
Detector Phase	7	4	5	3	8	1	5	2		1	6	7

2016 Alternate 2 PM PK LOS

3: Decubellis & Little Road

7/25/2011

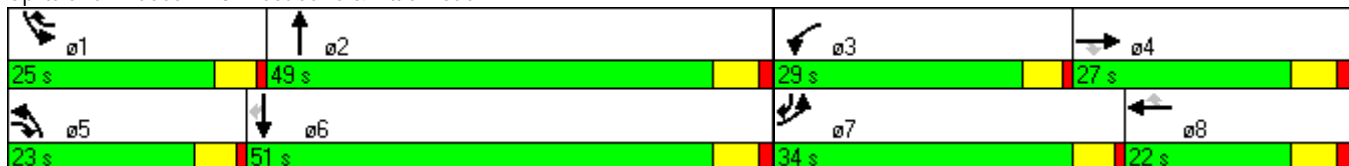


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	34.0	27.0	23.0	29.0	22.0	25.0	23.0	49.0	0.0	25.0	51.0	34.0
Total Split (%)	26.2%	20.8%	17.7%	22.3%	16.9%	19.2%	17.7%	37.7%	0.0%	19.2%	39.2%	26.2%
Maximum Green (s)	29.0	21.0	18.0	24.0	16.0	20.0	18.0	43.0		20.0	45.0	29.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	29.0	21.0	45.0	24.0	16.0	42.0	18.0	43.0		20.0	45.0	80.0
Actuated g/C Ratio	0.22	0.16	0.35	0.18	0.12	0.32	0.14	0.33		0.15	0.35	0.62
v/c Ratio	1.00	1.06	0.31	1.08	0.97	0.94	1.10	0.99		0.71	1.01	0.58
Control Delay	82.3	120.1	27.2	122.1	92.4	70.4	138.5	61.9		67.7	66.6	16.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	82.3	120.1	27.2	122.1	92.4	70.4	138.5	61.9		67.7	66.6	16.4
LOS	F	F	C	F	F	E	F	E		E	E	B
Approach Delay		84.1			92.2			72.7			55.3	
Approach LOS		F			F			E			E	

Intersection Summary

Area Type: Other
 Cycle Length: 130
 Actuated Cycle Length: 130
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 130
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.10
 Intersection Signal Delay: 71.9
 Intersection LOS: E
 Intersection Capacity Utilization 94.7%
 ICU Level of Service F
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	764	319	177	353	422	485	270	1648	194	1781	578
v/c Ratio	1.00	1.06	0.31	1.08	0.97	0.94	1.10	0.99	0.71	1.01	0.58
Control Delay	82.3	120.1	27.2	122.1	92.4	70.4	138.5	61.9	67.7	66.6	16.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	82.3	120.1	27.2	122.1	92.4	70.4	138.5	61.9	67.7	66.6	16.4
Queue Length 50th (ft)	334	~295	89	~332	188	394	~258	501	157	~561	252
Queue Length 95th (ft)	322	#484	151	#518	#258	420	#384	#590	#247	#646	346
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		225
Base Capacity (vph)	766	301	568	327	436	515	245	1671	272	1760	993
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.00	1.06	0.31	1.08	0.97	0.94	1.10	0.99	0.71	1.01	0.58

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

2016 Alternate 3 PM PK LOS

3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	565	309	163	314	350	364	224	1342	100	171	1567	509
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		150
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	25		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		67				4		11				56
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	764	319	177	353	422	485	270	1525	123	194	1781	578
Shared Lane Traffic (%)												
Lane Group Flow (vph)	764	496	0	353	422	485	270	1648	0	194	1781	578
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2016 Alternate 3 PM PK LOS

3: Decubellis & Little Road

7/26/2011

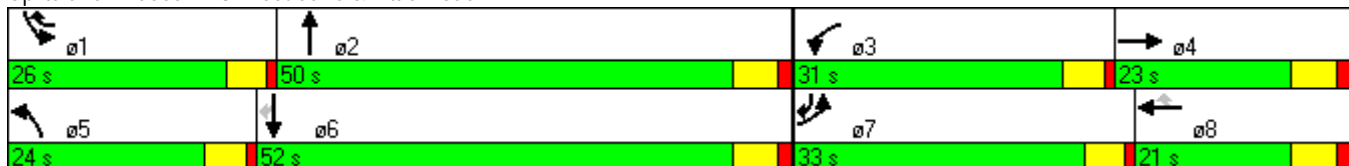


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	33.0	23.0	0.0	31.0	21.0	26.0	24.0	50.0	0.0	26.0	52.0	33.0
Total Split (%)	25.4%	17.7%	0.0%	23.8%	16.2%	20.0%	18.5%	38.5%	0.0%	20.0%	40.0%	25.4%
Maximum Green (s)	28.0	17.0		26.0	15.0	21.0	19.0	44.0		21.0	46.0	28.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	28.0	17.0		26.0	15.0	42.0	19.0	44.0		21.0	46.0	80.0
Actuated g/C Ratio	0.22	0.13		0.20	0.12	0.32	0.15	0.34		0.16	0.35	0.62
v/c Ratio	1.03	1.00		1.00	1.03	0.94	1.04	0.96		0.68	0.99	0.58
Control Delay	91.6	89.1		99.1	109.1	70.8	120.7	56.8		64.3	60.7	16.1
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	91.6	89.1		99.1	109.1	70.8	120.7	56.8		64.3	60.7	16.1
LOS	F	F		F	F	E	F	E		E	E	B
Approach Delay		90.6			91.6			65.8			50.9	
Approach LOS		F			F			E			D	

Intersection Summary

Area Type: Other
 Cycle Length: 130
 Actuated Cycle Length: 130
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 130
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.04
 Intersection Signal Delay: 69.5
 Intersection LOS: E
 Intersection Capacity Utilization 92.2%
 ICU Level of Service F
 Analysis Period (min) 15

Splits and Phases: 3: Decubellis & Little Road





Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	764	496	353	422	485	270	1648	194	1781	578
v/c Ratio	1.03	1.00	1.00	1.03	0.94	1.04	0.96	0.68	0.99	0.58
Control Delay	91.6	89.1	99.1	109.1	70.8	120.7	56.8	64.3	60.7	16.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	91.6	89.1	99.1	109.1	70.8	120.7	56.8	64.3	60.7	16.1
Queue Length 50th (ft)	~355	195	300	~200	395	~246	495	156	543	248
Queue Length 95th (ft)	#326	#316	#494	#270	421	#372	#578	235	#633	341
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		150
Base Capacity (vph)	739	496	354	408	514	259	1709	286	1799	996
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.03	1.00	1.00	1.03	0.94	1.04	0.96	0.68	0.99	0.58

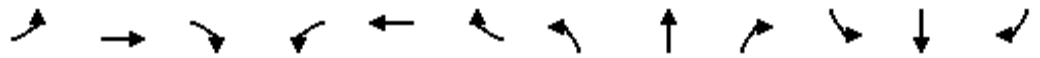
Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

PROJECTED BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011

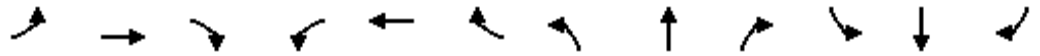


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	987	539	285	839	934	973	333	1990	148	306	2798	910
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		550	335		0	440		0
Storage Lanes	1		0	1		1	1		0	1		0
Taper Length (ft)	140		25	110		100	40		25	25		25
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	0.91	0.91	1.00	0.91	0.91
Frt		0.946			0.920			0.989			0.963	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3348	0	1770	3256	0	1770	5029	0	1770	4897	0
Flt Permitted	0.267			0.267			0.950			0.950		
Satd. Flow (perm)	497	3348	0	497	3256	0	1770	5029	0	1770	4897	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		57			130			11			70	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	1334	556	310	943	1125	1297	401	2261	183	348	3180	1034
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1334	866	0	943	2422	0	401	2444	0	348	4214	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt			pm+pt			Prot			Prot		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8								
Detector Phase	7	4		3	8		5	2		1	6	

PROJECTED BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011

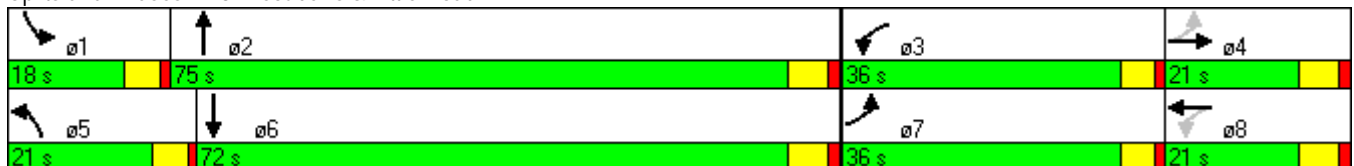


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0		6.0	20.0		6.0	20.0	
Minimum Split (s)	11.0	21.0		11.0	21.0		11.0	26.0		11.0	26.0	
Total Split (s)	36.0	21.0	0.0	36.0	21.0	0.0	21.0	75.0	0.0	18.0	72.0	0.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	0.0%	14.0%	50.0%	0.0%	12.0%	48.0%	0.0%
Maximum Green (s)	31.0	15.0		31.0	15.0		16.0	69.0		13.0	66.0	
Yellow Time (s)	4.0	4.5		4.0	4.5		4.0	4.5		4.0	4.5	
All-Red Time (s)	1.0	1.5		1.0	1.5		1.0	1.5		1.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0	5.0	6.0	4.0
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	None	
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	47.0	15.0		47.0	15.0		16.0	69.0		13.0	66.0	
Actuated g/C Ratio	0.31	0.10		0.31	0.10		0.11	0.46		0.09	0.44	
v/c Ratio	3.18	2.24		2.25	5.47		2.12	1.05		2.27	1.92	
Control Delay	1006.2	594.1		593.9	2025.8		552.0	73.9		621.8	442.0	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	1006.2	594.1		593.9	2025.8		552.0	73.9		621.8	442.0	
LOS	F	F		F	F		F	E		F	F	
Approach Delay		844.0			1624.5			141.3			455.7	
Approach LOS		F			F			F			F	

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 5.47
 Intersection Signal Delay: 755.8
 Intersection LOS: F
 Intersection Capacity Utilization 222.9%
 ICU Level of Service H
 Analysis Period (min) 15

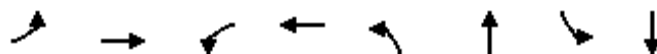
Splits and Phases: 3: Decubellis & Little Road



PROJECTED BASE MODEL PM PK LOS

3: Decubellis & Little Road

7/25/2011



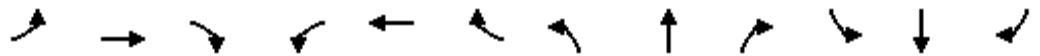
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	1334	866	943	2422	401	2444	348	4214
v/c Ratio	3.18	2.24	2.25	5.47	2.12	1.05	2.27	1.92
Control Delay	1006.2	594.1	593.9	2025.8	552.0	73.9	621.8	442.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	1006.2	594.1	593.9	2025.8	552.0	73.9	621.8	442.0
Queue Length 50th (ft)	~2251	~697	~1447	~2314	~622	~953	~550	~2321
Queue Length 95th (ft)	#1986	#834	#1686	#2225	#754	#996	#733	#2287
Internal Link Dist (ft)		2348		1033		1993		1650
Turn Bay Length (ft)	360		240		335		440	
Base Capacity (vph)	419	386	419	443	189	2319	153	2194
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	3.18	2.24	2.25	5.47	2.12	1.05	2.27	1.92

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2035 Alternate 1 PM PK Projected los
3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	987	539	285	839	934	973	333	1990	148	306	2798	910
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		0	240		150	335		0	440		150
Storage Lanes	1		0	1		1	1		0	1		1
Taper Length (ft)	140		25	110		100	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1762	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		15				1		11				3
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	1334	556	310	943	1125	1297	401	2261	183	348	3180	1034
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1334	866	0	943	1125	1297	401	2444	0	348	3180	1034
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7

2035 Alternate 1 PM PK Projected los
3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0
Minimum Split (s)	36.0	21.0		36.0	21.0	18.0	21.0	75.0		18.0	72.0	36.0
Total Split (s)	36.0	21.0	0.0	36.0	21.0	18.0	21.0	75.0	0.0	18.0	72.0	36.0
Total Split (%)	24.0%	14.0%	0.0%	24.0%	14.0%	12.0%	14.0%	50.0%	0.0%	12.0%	48.0%	24.0%
Maximum Green (s)	31.0	15.0		31.0	15.0	13.0	16.0	69.0		13.0	66.0	31.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	31.0	15.0		31.0	15.0	34.0	16.0	69.0		13.0	66.0	103.0
Actuated g/C Ratio	0.21	0.10		0.21	0.10	0.23	0.11	0.46		0.09	0.44	0.69
v/c Ratio	1.88	4.56		2.58	3.18	3.60	2.12	1.05		2.27	1.42	0.95
Control Delay	433.8	1626.4		740.6	1007.1	1194.6	552.0	73.9		621.8	225.7	39.7
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	433.8	1626.4		740.6	1007.1	1194.6	552.0	73.9		621.8	225.7	39.7
LOS	F	F		F	F	F	F	E		F	F	D
Approach Delay		903.2			1004.7			141.3			213.7	
Approach LOS		F			F			F			F	

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 4.56
 Intersection Signal Delay: 519.9
 Intersection Capacity Utilization 183.1%
 Analysis Period (min) 15
 Intersection LOS: F
 ICU Level of Service H

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 1 PM PK Projected los
3: Decubellis & Little Road

7/26/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	1334	866	943	1125	1297	401	2444	348	3180	1034
v/c Ratio	1.88	4.56	2.58	3.18	3.60	2.12	1.05	2.27	1.42	0.95
Control Delay	433.8	1626.4	740.6	1007.1	1194.6	552.0	73.9	621.8	225.7	39.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	433.8	1626.4	740.6	1007.1	1194.6	552.0	73.9	621.8	225.7	39.7
Queue Length 50th (ft)	~1023	~1569	~1542	~1012	~2291	~622	~953	~550	~1531	847
Queue Length 95th (ft)	#889	#1830	#1777	#1047	#2071	#754	#996	#733	#1545	#1205
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		150
Base Capacity (vph)	709	190	366	354	360	189	2319	153	2237	1088
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.88	4.56	2.58	3.18	3.60	2.12	1.05	2.27	1.42	0.95

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2035 Alternate 2 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	987	539	285	839	934	973	333	1990	148	306	2798	910
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	360		150	240		150	335		0	440		150
Storage Lanes	1		1	1		1	1		0	1		1
Taper Length (ft)	140		50	110		50	40		25	25		50
Lane Util. Factor	0.97	1.00	1.00	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Fr _t			0.850			0.850		0.989				0.850
Fl _t Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Fl _t Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			2					9				224
Link Speed (mph)		30			30			30				30
Link Distance (ft)		2428			1113			2073				1730
Travel Time (s)		55.2			25.3			47.1				39.3
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Adj. Flow (vph)	1334	556	310	943	1125	1297	401	2261	183	348	3180	1034
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1334	556	310	943	1125	1297	401	2444	0	348	3180	1034
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		30			24			24				24
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94				94
Detector 2 Size(ft)		6			6			6				6
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex				Cl+Ex
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0				0.0
Turn Type	Prot		pm+ov	Prot		pm+ov	Prot			Prot		Prot
Protected Phases	7	4	5	3	8	1	5	2		1	6	6
Permitted Phases			4			8						
Detector Phase	7	4	5	3	8	1	5	2		1	6	6

2035 Alternate 2 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011

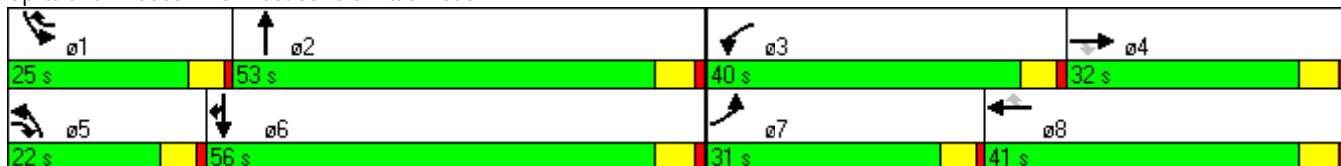


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Switch Phase												
Minimum Initial (s)	6.0	10.0	6.0	6.0	10.0	6.0	6.0	20.0		6.0	20.0	20.0
Minimum Split (s)	11.0	21.0	11.0	11.0	21.0	11.0	11.0	26.0		11.0	26.0	26.0
Total Split (s)	31.0	32.0	22.0	40.0	41.0	25.0	22.0	53.0	0.0	25.0	56.0	56.0
Total Split (%)	20.7%	21.3%	14.7%	26.7%	27.3%	16.7%	14.7%	35.3%	0.0%	16.7%	37.3%	37.3%
Maximum Green (s)	26.0	26.0	17.0	35.0	35.0	20.0	17.0	47.0		20.0	50.0	50.0
Yellow Time (s)	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.5
All-Red Time (s)	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	5.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	6.0
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	4.0
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	11.0
Pedestrian Calls (#/hr)		0			0			0			0	0
Act Effct Green (s)	26.0	26.0	49.0	35.0	35.0	61.0	17.0	47.0		20.0	50.0	50.0
Actuated g/C Ratio	0.17	0.17	0.33	0.23	0.23	0.41	0.11	0.31		0.13	0.33	0.33
v/c Ratio	2.24	1.72	0.60	2.28	1.36	2.01	2.00	1.54		1.47	1.88	1.53
Control Delay	591.5	372.9	47.8	610.9	213.4	487.7	496.8	283.5		278.0	425.6	272.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	591.5	372.9	47.8	610.9	213.4	487.7	496.8	283.5		278.0	425.6	272.7
LOS	F	F	D	F	F	F	F	F		F	F	F
Approach Delay		459.6			430.6			313.6			379.7	
Approach LOS		F			F			F			F	

Intersection Summary

Area Type:	Other
Cycle Length:	150
Actuated Cycle Length:	150
Offset:	0 (0%), Referenced to phase 2:NBT, Start of Green
Natural Cycle:	150
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	2.28
Intersection Signal Delay:	392.0
Intersection LOS:	F
Intersection Capacity Utilization:	165.7%
ICU Level of Service:	H
Analysis Period (min):	15

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 2 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	1334	556	310	943	1125	1297	401	2444	348	3180	1034
v/c Ratio	2.24	1.72	0.60	2.28	1.36	2.01	2.00	1.54	1.47	1.88	1.53
Control Delay	591.5	372.9	47.8	610.9	213.4	487.7	496.8	283.5	278.0	425.6	272.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	591.5	372.9	47.8	610.9	213.4	487.7	496.8	283.5	278.0	425.6	272.7
Queue Length 50th (ft)	~1084	~800	253	~1494	~760	~1978	~610	~1234	~467	~1732	~1265
Queue Length 95th (ft)	#948	#1034	360	#1729	#795	#1761	#742	#1277	#649	#1746	#1479
Internal Link Dist (ft)		2348			1033			1993		1650	
Turn Bay Length (ft)	360		150	240		150	335		440		150
Base Capacity (vph)	595	323	518	413	826	644	201	1582	236	1695	677
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	2.24	1.72	0.60	2.28	1.36	2.01	2.00	1.54	1.47	1.88	1.53

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

2035 Alternate 3 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	987	539	285	839	934	973	333	1990	148	306	2789	910
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	360		150	240		150	335		0	440		225
Storage Lanes	2		0	1		1	1		0	1		1
Taper Length (ft)	140		50	110		100	40		25	50		50
Lane Util. Factor	0.97	0.95	0.95	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.91	1.00
Ped Bike Factor												
Frt		0.946				0.850		0.989				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3348	0	1770	3539	1583	1770	5029	0	1770	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		60						9				4
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		2428			1113			2073			1730	
Travel Time (s)		55.2			25.3			47.1			39.3	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.74	0.97	0.92	0.89	0.83	0.75	0.83	0.88	0.81	0.88	0.88	0.88
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Adj. Flow (vph)	1334	556	310	943	1125	1297	401	2261	183	348	3169	1034
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1334	866	0	943	1125	1297	401	2444	0	348	3169	1034
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	1	1	2		1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100		20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0		0	0	0
Turn Type	Prot			Prot		pm+ov	Prot			Prot		pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases						8						6
Detector Phase	7	4		3	8	1	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	6.0	10.0		6.0	10.0	6.0	6.0	20.0		6.0	20.0	6.0

2035 Alternate 3 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Minimum Split (s)	11.0	21.0		11.0	21.0	11.0	11.0	26.0		11.0	26.0	11.0
Total Split (s)	32.0	28.0	0.0	42.0	38.0	28.0	22.0	52.0	0.0	28.0	58.0	32.0
Total Split (%)	21.3%	18.7%	0.0%	28.0%	25.3%	18.7%	14.7%	34.7%	0.0%	18.7%	38.7%	21.3%
Maximum Green (s)	27.0	22.0		37.0	32.0	23.0	17.0	46.0		23.0	52.0	27.0
Yellow Time (s)	4.0	4.5		4.0	4.5	4.0	4.0	4.5		4.0	4.5	4.0
All-Red Time (s)	1.0	1.5		1.0	1.5	1.0	1.0	1.5		1.0	1.5	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	4.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	6.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag	Lead	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Recall Mode	None	None		None	None	None	None	C-Max		None	None	None
Walk Time (s)		4.0			4.0			4.0			4.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effect Green (s)	27.0	22.0		37.0	32.0	61.0	17.0	46.0		23.0	52.0	85.0
Actuated g/C Ratio	0.18	0.15		0.25	0.21	0.41	0.11	0.31		0.15	0.35	0.57
v/c Ratio	2.16	1.60		2.16	1.49	2.01	2.00	1.58		1.28	1.80	1.15
Control Delay	554.8	313.9		555.7	267.4	487.7	496.8	298.3		201.5	391.1	111.6
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	554.8	313.9		555.7	267.4	487.7	496.8	298.3		201.5	391.1	111.6
LOS	F	F		F	F	F	F	F		F	F	F
Approach Delay		460.0			433.1			326.2			313.1	
Approach LOS		F			F			F			F	
Stops (vph)	607	526		516	678	606	212	1485		239	1817	753
Fuel Used(gal)	134	71		105	63	108	40	173		18	270	37
CO Emissions (g/hr)	9334	4980		7343	4382	7578	2812	12064		1258	18855	2595
NOx Emissions (g/hr)	1816	969		1429	853	1474	547	2347		245	3669	505
VOC Emissions (g/hr)	2163	1154		1702	1016	1756	652	2796		292	4370	601
Dilemma Vehicles (#)	0	0		0	0	0	0	0		0	0	0
Queue Length 50th (ft)	~1071	~611		~1470	~797	~1978	~610	~1247		~431	~1699	~1188
Queue Length 95th (ft)	#937	#748		#1705	#833	#1761	#742	#1290		#613	#1713	#1402
Internal Link Dist (ft)		2348			1033			1993			1650	
Turn Bay Length (ft)	360			240		150	335			440		225
Base Capacity (vph)	618	542		437	755	644	201	1548		271	1763	899
Starvation Cap Reductn	0	0		0	0	0	0	0		0	0	0
Spillback Cap Reductn	0	0		0	0	0	0	0		0	0	0
Storage Cap Reductn	0	0		0	0	0	0	0		0	0	0
Reduced v/c Ratio	2.16	1.60		2.16	1.49	2.01	2.00	1.58		1.28	1.80	1.15

Intersection Summary

Area Type: Other
 Cycle Length: 150
 Actuated Cycle Length: 150
 Offset: 0 (0%), Referenced to phase 2:NBT, Start of Green
 Natural Cycle: 150

2035 Alternate 3 PM PK Projected LOS

3: Decubellis & Little Road

7/25/2011

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 2.16

Intersection Signal Delay: 372.1

Intersection LOS: F

Intersection Capacity Utilization 161.2%

ICU Level of Service H

Analysis Period (min) 15

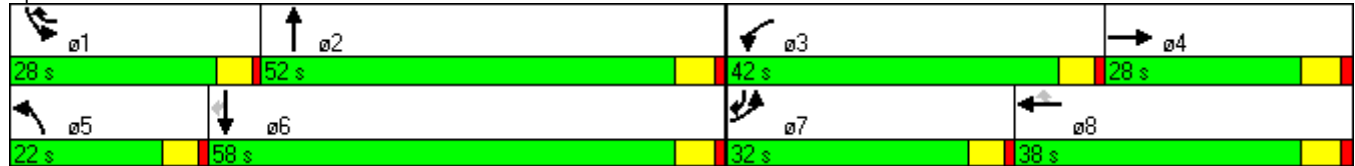
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 3: Decubellis & Little Road



2035 Alternate 3 PM PK Projected LOS
 3: Decubellis & Little Road

7/25/2011



Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	1334	866	943	1125	1297	401	2444	348	3169	1034
v/c Ratio	2.16	1.60	2.16	1.49	2.01	2.00	1.58	1.28	1.80	1.15
Control Delay	554.8	313.9	555.7	267.4	487.7	496.8	298.3	201.5	391.1	111.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	554.8	313.9	555.7	267.4	487.7	496.8	298.3	201.5	391.1	111.6
Queue Length 50th (ft)	~1071	~611	~1470	~797	~1978	~610	~1247	~431	~1699	~1188
Queue Length 95th (ft)	#937	#748	#1705	#833	#1761	#742	#1290	#613	#1713	#1402
Internal Link Dist (ft)		2348		1033			1993		1650	
Turn Bay Length (ft)	360		240		150	335		440		225
Base Capacity (vph)	618	542	437	755	644	201	1548	271	1763	899
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	2.16	1.60	2.16	1.49	2.01	2.00	1.58	1.28	1.80	1.15

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

APPENDIX D

Intersection Crash Data

(Appendix is Double-Sided)





CR 1 @ Decubellis Rd/Massachusetts Av
 Crashes within 250 ft for
 1/2007 to 10/2010

Pasco County Traffic Operations
 Public Works Utilities Bldg, Rm 124
 7530 Little Rd
 New Port Richey, FL 34654
 (727) 847-8139
 (727) 815-7014 Fax

CASE ID	ON STREET	CROSS STREET	DATE	TIME	DIST	DIR	INJURY	FATAL	VEH	FIRST HARM	SUB HARM
7564237	CR 1	DECUBELLIS RD	2/15/2007	1054	25	S	0	0	3	REAR-END	REAR-END
77375463	CR 1	DECUBELLIS RD	9/17/2007	1007	75	S	1	0	3	REAR-END	REAR-END
77147639	CR 1	DECUBELLIS RD	10/13/2007	1852	25	N	0	0	2	REAR-END	REAR-END
77667264	CR 1	DECUBELLIS RD	3/4/2008	1227	0		0	0	3	REAR-END	REAR-END
77392844	CR 1	DECUBELLIS RD	6/3/2008	1602	200	S	0	0	2	REAR-END	REAR-END
77664687	CR 1	DECUBELLIS RD	2/9/2009	1850	0		0	0	2	REAR-END	REAR-END
77671026	CR 1	DECUBELLIS RD	4/30/2009	817	0		1	0	2	REAR-END	REAR-END
80462473	CR 1	DECUBELLIS RD	1/21/2010	2010	20	S	0	0	2	REAR-END	REAR-END
80470110	CR 1	DECUBELLIS RD	4/20/2010	1200	0		0	0	2	ANGLE	ANGLE
80466899	CR 1	DECUBELLIS RD	5/25/2010	756	150	S	0	0	2	REAR-END	REAR-END
80605426	CR 1	DECUBELLIS RD	7/25/2010	704	0		0	0	3	HIT MV ON RDWY	REAR-END
77131127	CR 1	MASSACHUSETTS AV	1/31/2007	NONE	0		0	0	2	ANGLE	ANGLE
77130193	CR 1	MASSACHUSETTS AV	2/23/2007	1703	100	N	0	0	2	SIDESWIPE	SIDESWIPE
77137424	CR 1	MASSACHUSETTS AV	4/2/2007	1840	100	S	0	0	2	ANGLE	ANGLE
77137821	CR 1	MASSACHUSETTS AV	4/12/2007	1518	150	N	0	0	3	REAR-END	REAR-END
7553422	CR 1	MASSACHUSETTS AV	5/25/2007	1537	10	N	0	0	2	REAR-END	REAR-END
77139531	CR 1	MASSACHUSETTS AV	5/31/2007	1120	0		0	0	2	HEAD-ON	HEAD-ON
77141050	CR 1	MASSACHUSETTS AV	6/7/2007	1925	0		1	0	2	LEFT-TURN	LEFT-TURN
77143624	CR 1	MASSACHUSETTS AV	7/20/2007	2246	0		0	0	2	ANGLE	LEFT-TURN
77147397	CR 1	MASSACHUSETTS AV	8/28/2007	1100	0		3	0	2	LEFT-TURN	LEFT-TURN
77378485	CR 1	MASSACHUSETTS AV	11/1/2007	1427	0		0	0	3	SIDESWIPE	SIDESWIPE
77383164	CR 1	MASSACHUSETTS AV	12/17/2007	1825	15	N	0	0	2	REAR-END	REAR-END
77381191	CR 1	MASSACHUSETTS AV	12/29/2007	1508	15	N	0	0	2	REAR-END	REAR-END
77385634	CR 1	MASSACHUSETTS AV	2/27/2008	1117	20	N	0	0	2	REAR-END	REAR-END
77390358	CR 1	MASSACHUSETTS AV	3/5/2008	938	20	N	1	0	2	HIT MV ON RDWY	REAR-END
77394101	CR 1	MASSACHUSETTS AV	4/7/2008	1610	200	N	0	0	3	REAR-END	REAR-END
77394908	CR 1	MASSACHUSETTS AV	4/29/2008	1840	0		3	0	2	LEFT-TURN	LEFT-TURN
77393282	CR 1	MASSACHUSETTS AV	4/29/2008	800	0		0	0	2	REAR-END	REAR-END
77397166	CR 1	MASSACHUSETTS AV	5/30/2008	1615	0		0	0	2	REAR-END	REAR-END
77656078	CR 1	MASSACHUSETTS AV	10/10/2008	740	0		1	0	2	ANGLE	ANGLE
77656942	CR 1	MASSACHUSETTS AV	12/4/2008	1252	50	N	0	0	2	REAR-END	REAR-END
77662541	CR 1	MASSACHUSETTS AV	1/15/2009	1300	30	N	0	0	2	SIDESWIPE	SIDESWIPE
77664869	CR 1	MASSACHUSETTS AV	2/8/2009	1049	30	S	1	0	2	HIT MV ON RDWY	REAR-END
77663630	CR 1	MASSACHUSETTS AV	2/11/2009	2132	5	N	0	0	2	REAR-END	REAR-END
77661106	CR 1	MASSACHUSETTS AV	2/26/2009	1700	50	N	0	0	2	REAR-END	REAR-END



CR 1 @ Decubellis Rd/Massachusetts Av

Crashes within 250 ft for
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CASE ID	ON STREET	CROSS STREET	DATE	TIME	DIST	DIR	INJURY	FATAL	VEH	FIRST HARM	SUB HARM
77665293	CR 1	MASSACHUSETTS AV	4/15/2009	2205	35	N	0	0	2	HIT MV ON RDWY	REAR-END
77674863	CR 1	MASSACHUSETTS AV	7/20/2009	2100	0		0	0	2	HEAD-ON	HEAD-ON
80455394	CR 1	MASSACHUSETTS AV	12/7/2009	1711	50	N	1	0	3	REAR-END	REAR-END
7575451	CR 1	MASSACHUSETTS AV	12/22/2009	1550	25	N	0	0	2	ANGLE	ANGLE
80462454	CR 1	MASSACHUSETTS AV	12/28/2009	1724	20	N	0	0	2	REAR-END	REAR-END
80464101	CR 1	MASSACHUSETTS AV	1/21/2010	1645	200	N	1	0	2	REAR-END	REAR-END
80464102	CR 1	MASSACHUSETTS AV	1/21/2010	1655	200	N	0	0	2	HIT PARKED CAR	BACKED INTO
80464148	CR 1	MASSACHUSETTS AV	2/25/2010	645	0		0	0	2	ANGLE	ANGLE
80464786	CR 1	MASSACHUSETTS AV	3/5/2010	2215	0		4	0	2	ANGLE	ANGLE
77669641	CR 1	MASSACHUSETTS AV	3/16/2010	1346	100	N	0	0	2	REAR-END	REAR-END
80605833	CR 1	MASSACHUSETTS AV	7/9/2010	1625	30	N	0	0	2	REAR-END	REAR-END
80606276	CR 1	MASSACHUSETTS AV	7/29/2010	703	50	N	0	0	4	REAR-END	REAR-END
80605438	CR 1	MASSACHUSETTS AV	8/23/2010	1534	50	N	0	0	2	HIT MV ON RDWY	REAR-END
80606533	CR 1	MASSACHUSETTS AV	9/8/2010	710	50	S	0	0	2	ANGLE	REAR-END
80611955	CR 1	MASSACHUSETTS AV	9/14/2010	1525	30	N	0	0	2	REAR-END	REAR-END
80608398	CR 1	MASSACHUSETTS AV	9/25/2010	1511	0		0	0	2	REAR-END	REAR-END
80610918	CR 1	MASSACHUSETTS AV	9/27/2010	732	100	S	0	0	2	ANGLE	ANGLE
80612066	CR 1	MASSACHUSETTS AV	10/5/2010	909	200	N	0	0	2	ANGLE	SIDESWIPE
80614455	CR 1	MASSACHUSETTS AV	10/31/2010	815	0		1	0	2	ANGLE	ANGLE
77653484	DECUBELLIS RD	CR 1	9/11/2008	1505	50	E	0	0	2	REAR-END	REAR-END
77132585	DECUBELLIS RD	CR 1	3/4/2007	1650	100	E	0	0	2	ANGLE	ANGLE
80453637	DECUBELLIS RD	CR 1	9/3/2009	1725	50	E	0	0	2	REAR-END	REAR-END
7559435	DECUBELLIS RD	CR 1	3/16/2007	2230	200	E	0	0	2	LEFT-TURN	ANGLE
76877726	DECUBELLIS RD	CR 1	5/31/2007	1430	0		0	0	2	REAR-END	REAR-END
77146666	DECUBELLIS RD	CR 1	7/31/2007	1354	100	E	1	0	2	REAR-END	REAR-END
77392841	DECUBELLIS RD	CR 1	6/2/2008	1603	0		0	0	2	REAR-END	REAR-END
77398756	DECUBELLIS RD	CR 1	6/16/2008	926	50	E	0	0	2	BACKED INTO	BACKED INTO
77654152	DECUBELLIS RD	CR 1	8/21/2008	1106	0		0	0	2	REAR-END	REAR-END
7570176	DECUBELLIS RD	CR 1	3/12/2009	1300	20	E	0	0	2	REAR-END	REAR-END
80465933	DECUBELLIS RD	CR 1	3/19/2010	916	100	E	0	0	2	REAR-END	REAR-END
80613313	DECUBELLIS RD	CR 1	10/20/2010	945	30	E	0	0	2	REAR-END	REAR-END
7564204	MASSACHUSETTS AV	CR 1	1/7/2007	1300	30	W	0	0	2	REAR-END	ANGLE
77138322	MASSACHUSETTS AV	CR 1	4/10/2007	1602	20	W	0	0	2	ALL OTHER	HIT FIXED OBJ ABOVE RD
77140662	MASSACHUSETTS AV	CR 1	5/7/2007	1355	200	W	1	0	2	BACKED INTO	BACKED INTO
77139296	MASSACHUSETTS AV	CR 1	5/26/2007	2156	0		0	0	2	LEFT-TURN	ANGLE



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CASE ID	ON STREET	CROSS STREET	DATE	TIME	DIST	DIR	INJURY	FATAL	VEH	FIRST HARM	SUB HARM
77143368	MASSACHUSETTS AV	CR 1	6/14/2007	1748	0		0	0	2	ANGLE	ANGLE
77147185	MASSACHUSETTS AV	CR 1	8/17/2007	1430	0		0	0	2	SIDESWIPE	SIDESWIPE
7566802	MASSACHUSETTS AV	CR 1	9/6/2007	928	30	W	0	0	3	HIT MV ON RDWY	REAR-END
77375591	MASSACHUSETTS AV	CR 1	9/26/2007	1920	30	W	0	0	2	SIDESWIPE	SIDESWIPE
77387005	MASSACHUSETTS AV	CR 1	1/18/2008	1856	0		0	0	2	ANGLE	ANGLE
77139773	MASSACHUSETTS AV	CR 1	2/8/2008	1203	0		0	0	2	ANGLE	ANGLE
77390387	MASSACHUSETTS AV	CR 1	4/15/2008	2253	20	W	0	0	2	HIT MV ON RDWY	SIDESWIPE
77395914	MASSACHUSETTS AV	CR 1	5/22/2008	643	0		0	0	2	ANGLE	ANGLE
77658809	MASSACHUSETTS AV	CR 1	11/5/2008	725	10	W	0	0	2	REAR-END	REAR-END
77659465	MASSACHUSETTS AV	CR 1	11/21/2008	817	50	W	1	0	2	HIT MV ON RDWY	REAR-END
77665103	MASSACHUSETTS AV	CR 1	2/4/2009	1700	200	W	0	0	3	REAR-END	REAR-END
77663754	MASSACHUSETTS AV	CR 1	2/12/2009	1640	100	W	0	0	2	REAR-END	REAR-END
77671019	MASSACHUSETTS AV	CR 1	4/27/2009	1330	0		0	0	2	ALL OTHER	SIDESWIPE
80449718	MASSACHUSETTS AV	CR 1	7/4/2009	39	0		0	0	1	HIT OTHER FIXED OBJ	NONE
80452219	MASSACHUSETTS AV	CR 1	8/6/2009	1130	30	W	0	0	2	REAR-END	REAR-END
7570580	MASSACHUSETTS AV	CR 1	10/26/2009	1030	250	W	0	0	1	ALL OTHER	NONE
80456932	MASSACHUSETTS AV	CR 1	11/2/2009	1448	30	W	0	0	2	REAR-END	REAR-END
80462287	MASSACHUSETTS AV	CR 1	1/13/2010	2045	25	E	0	0	2	ANGLE	ANGLE
80465892	MASSACHUSETTS AV	CR 1	4/7/2010	2050	10	W	0	0	2	REAR-END	REAR-END
80471297	MASSACHUSETTS AV	CR 1	6/7/2010	1333	200	W	1	0	4	REAR-END	REAR-END
80471899	MASSACHUSETTS AV	CR 1	6/12/2010	2054	0		1	0	2	ANGLE	LEFT-TURN
7802960	MASSACHUSETTS AV	CR 1	7/19/2010	846	30	W	0	0	2	REAR-END	REAR-END
80608038	MASSACHUSETTS AV	CR 1	8/16/2010	1349	0		3	0	2	ANGLE	ANGLE
80607827	MASSACHUSETTS AV	CR 1	9/7/2010	1330	0		0	0	2	ANGLE	ANGLE
80613060	MASSACHUSETTS AV	CR 1	10/1/2010	2124	0		1	0	2	ANGLE	ANGLE
80612070	MASSACHUSETTS AV	CR 1	10/13/2010	840	0		0	0	2	HIT MV ON RDWY	REAR-END

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

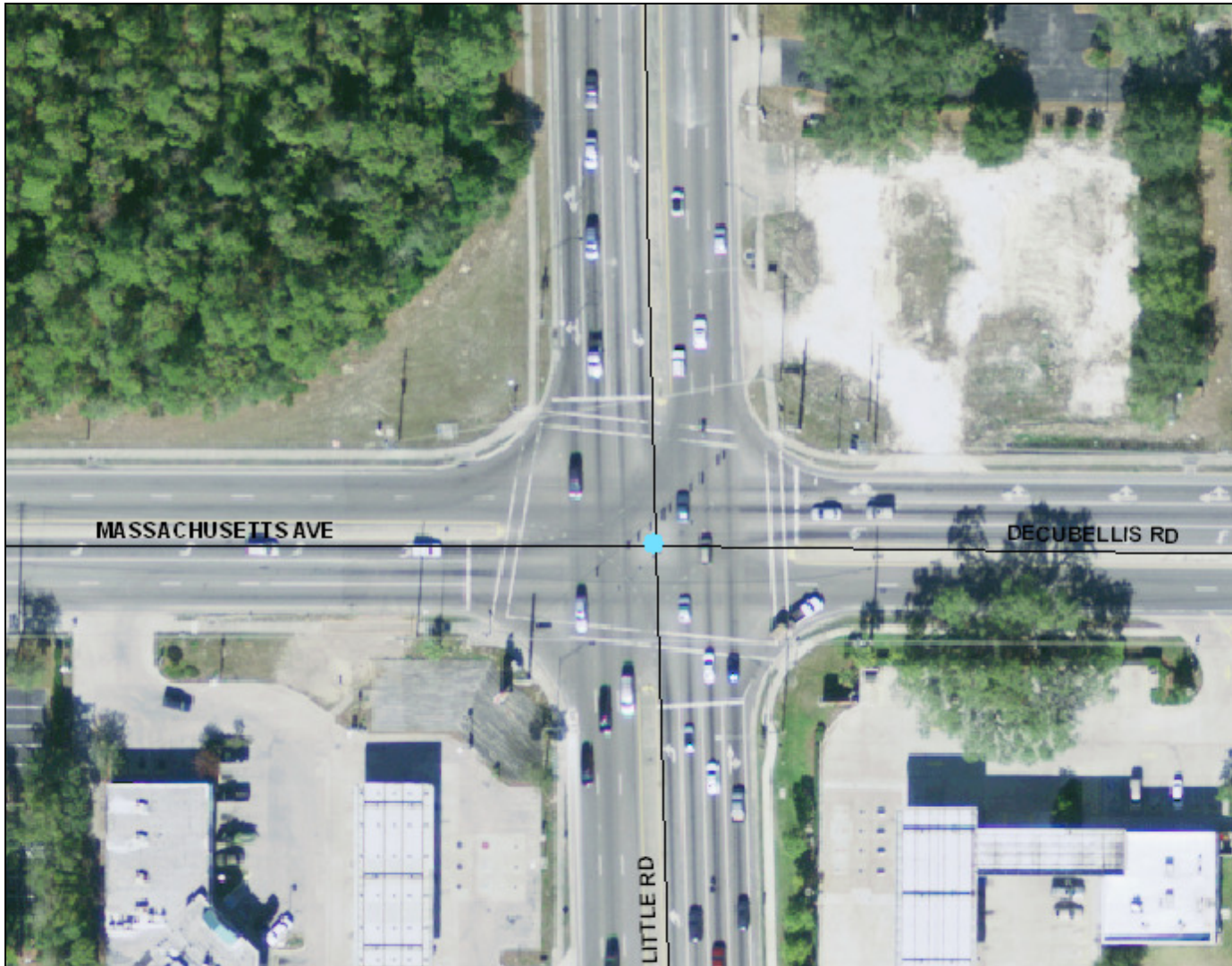
Date Range
1/7/2007 to 10/31/2010

Crash Summary

<u>Crashes</u>	<u>Fatalities</u>	<u>Injuries</u>
96	0	28

Report Memo:

Data includes crash reports received 1/1/2007 through 10/31/2010 within 250 ft of the intersection



CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Node Summary

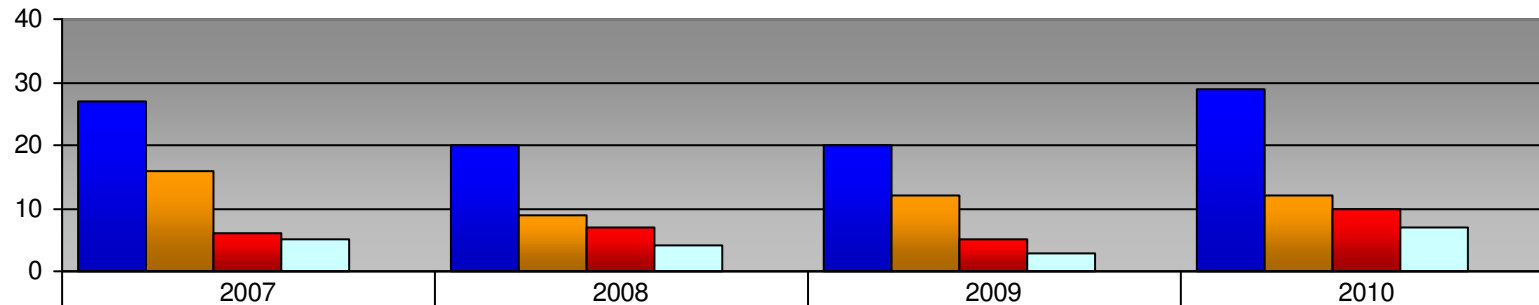
Ref	Node	On Street	Cross Street	Crashes	Fatalities	Injuries
1	14 8789	CR 1	DECUBELLIS RD	96	0	28

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

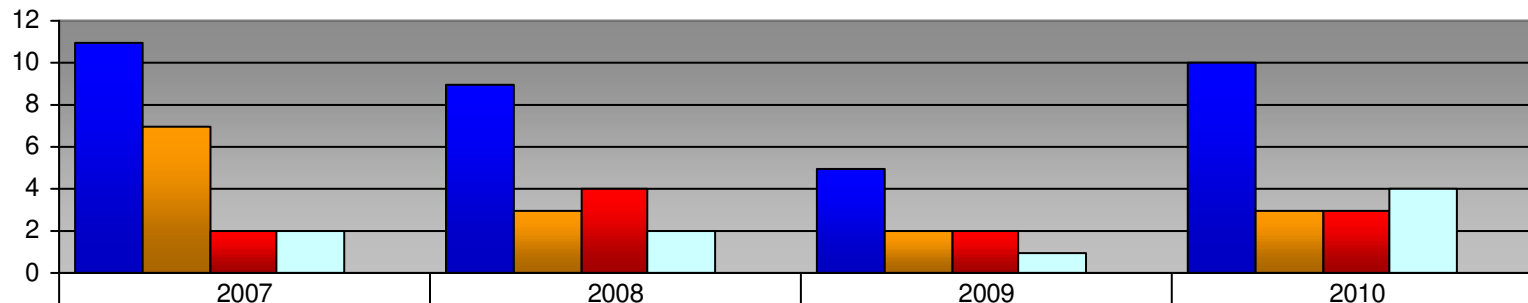
Date Range
1/7/2007 to 10/31/2010

Number of Crashes By Year



	2007	2008	2009	2010
Crashes	27	20	20	29
PDO	16	9	12	12
Possible Injury	6	7	5	10
Injury Crashes	5	4	3	7
Fatal Crashes	0	0	0	0

Number of Crashes Coded at or Influenced by Intersection



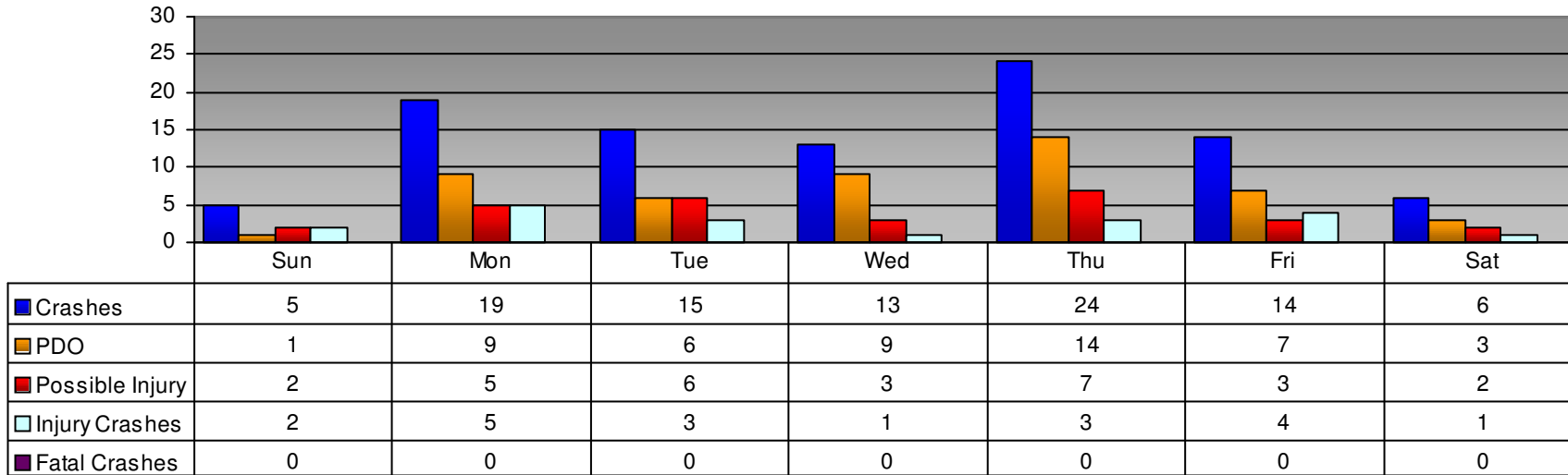
	2007	2008	2009	2010
Crashes	11	9	5	10
PDO	7	3	2	3
Possible Injury	2	4	2	3
Injury Crashes	2	2	1	4
Fatal Crashes	0	0	0	0

CDMS Crash Data Summary Report

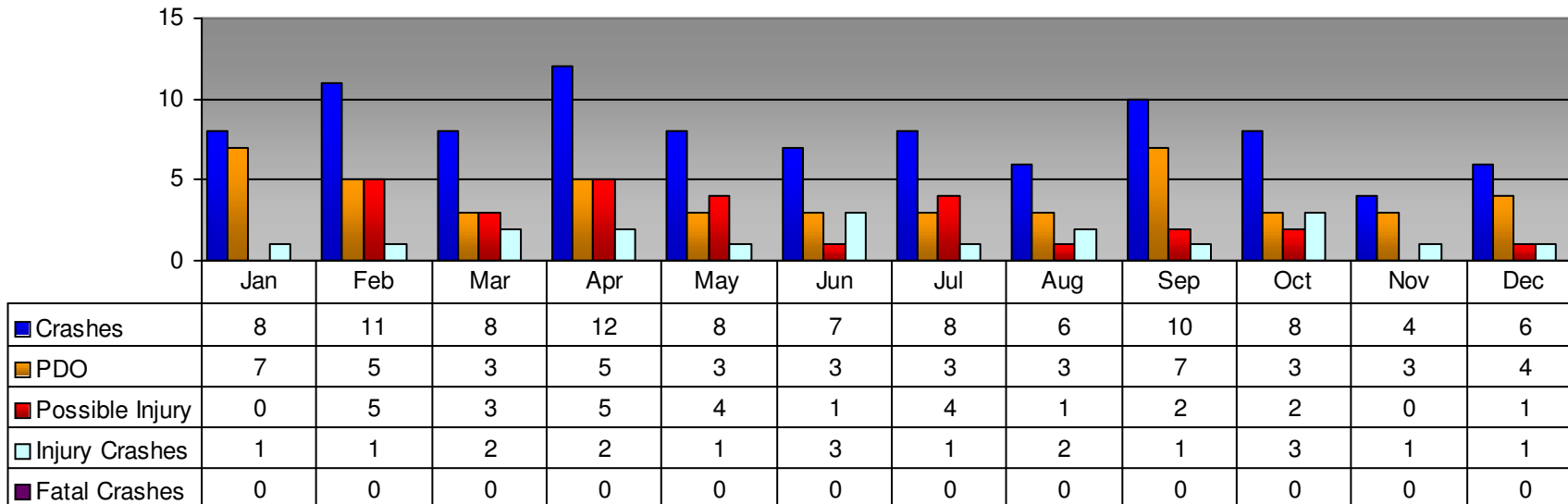
CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Number of Crashes Day of Week



Number of Crashes By Month

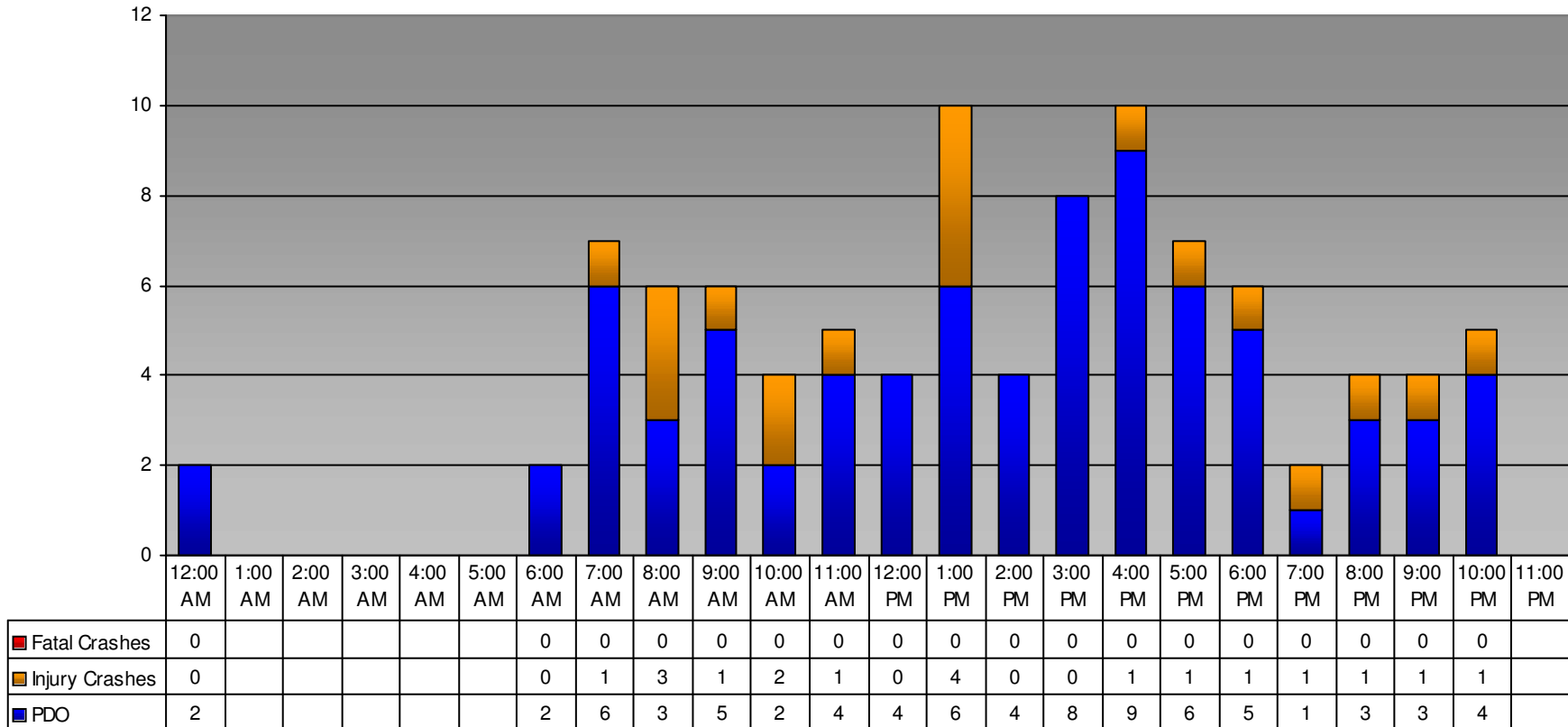


CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Time of Day



CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Annualized Weighted Frequency Report

Top 50 Locations

The purpose of this report is to identify locations that have an increasing trend using a 3 year history of crash data. A weighted yearly average is used to identify these locations. In practice, this report will be used to identify locations that have a steady yearly increase or locations that have had a substantial increase in crashes for the current year

Ref#	Node	Node Description	County	City	2007	2008	2009	2010	TotalCrashes
1	14_8789	CR 1 @ DECUBELLIS RD	PASCO		27	20	20	37	104

Number of Crashes By 1st Harmful Event	2005	2006	2007	2008	2009	2010	2011	Total	Avg	% Pct
ALL OTHER (EXPLAIN)			1		2			3	0.75	3.12
ANGLE			5	4	1	12		22	5.5	22.92
BACKED INTO			1	1				2	0.5	2.08
CARGO LOSS OR SHIFT								0	0	0
COLL. W/ BICYCLE								0	0	0
COLL. W/ BICYCLE (BIKE LANE)								0	0	0
COLL. W/ MV ON ROADWAY			1	3	2	3		9	2.25	9.38
COLL. W/ PARKED CAR						1		1	0.25	1.04
COLL. W/ PEDESTRIAN								0	0	0
COLL. W/CONSTRUCTION BARRICADE/SIGN								0	0	0
COLL. W/CRASH ATTENUATORS								0	0	0
COLL. W/FIXED OBJECT ABOVE ROAD								0	0	0
COLL. W/MOVEABLE OBJECT ON ROAD								0	0	0
COLL. W/TRAFFIC GATE								0	0	0
COLLISION WITH ANIMAL								0	0	0
COLLISION WITH MOPED								0	0	0
COLLISION WITH TRAIN								0	0	0
DOWNHILL RUNAWAY								0	0	0
EXPLOSION								0	0	0
FIRE								0	0	0
HEAD-ON			1		1			2	0.5	2.08
HIT BRIDGE/PIER/ABUTMENT/RAIL								0	0	0
HIT CONC. BARRIER WALL								0	0	0
HIT FENCE								0	0	0
HIT GUARDRAIL								0	0	0
HIT OTHER FIXED OBJECT					1			1	0.25	1.04
HIT SIGN/SIGN POST								0	0	0
HIT TREE/SHRUBBERY								0	0	0
JACKKNIFED								0	0	0
LEFT-TURN			4	1				5	1.25	5.21
MEDIAN CROSSOVER								0	0	0

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

OCCUPANT FELL FROM VEH					0	0	0
OVERTURNED					0	0	0
RAN IN DITCH/CULVERT					0	0	0
RAN OFF RD INTO WATER					0	0	0
REAR-END	10	11	12	13	46	11.5	47.92
RIGHT-TURN					0	0	0
SEPARATION OF UNITS					0	0	0
SIDESWIPE	4		1		5	1.25	5.21
UNKNOWN/NOT CODED					0	0	0
UTILITY/LIGHT POLE					0	0	0

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

At Fault - Contributing Cause	2004	2005	2006	2007	2008	2009	2010	2011	Total	Average	% Percent
NO IMPROPER DRVNG/ACT						1			1	0.25	1.04
CARELESS DRIVING				12	13	14	18		57	14.3	59.4
FAILED TO YIELD				1	2		5		8	2	8.33
IMPROPER BACKING				1	1		2		4	1	4.17
IMPROPER LANE CHANGE				5	1	2	1		9	2.25	9.38
IMPROPER TURN				1					1	0.25	1.04
DRUGS-UNDER INFLUENCE					1				1	0.25	1.04
ALC & DRUGS-UNDER INFL						1			1	0.25	1.04
FOLLOWED TOO CLOSELY						1			1	0.25	1.04
DISREGARDED TRAFF SGNL				2	1		1		4	1	4.17
ALL OTHER (EXPLAIN)				5	1	1	2		9	2.25	9.38

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Crash Type Distribution

Harmful Event	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
REAR-END	46	0	6	0	0	0	9	1	0
ANGLE	22	0	11	0	0	13	15	0	0
COLL. W/ MV ON ROADWAY	9	0	3	0	0	2	1	0	1
SIDESWIPE	5	0	0	0	0	5	2	3	0
LEFT-TURN	5	0	7	0	0	2	4	0	0
ALL OTHER (EXPLAIN)	3	0	0	0	0	0	1	0	0
HEAD-ON	2	0	0	0	0	0	2	0	0
BACKED INTO	2	0	1	0	0	0	0	0	1
HIT OTHER FIXED OBJECT	1	0	0	0	0	0	1	0	0
COLL. W/ PARKED CAR	1	0	0	0	0	0	0	0	0

Site Location	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
AT INTERSECTION	35	0	18	0	0	12	35	0	0
NOT AT INTERSECTION/RRXING/BRIDGE	30	0	5	0	0	6	0	2	1
INFLUENCED BY INTERSECTION	28	0	5	0	0	3	0	2	1
PARKING LOT (PUBLIC)	1	0	0	0	0	0	0	0	0
PARKING LOT (PRIVT)	1	0	0	0	0	0	0	0	0
DRIVEWAY ACCESS	1	0	0	0	0	1	0	0	0

Injury Severity	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
NONE	49	0	0	0	0	10	15	2	0
POSSIBLE INJ	28	0	0	0	0	4	11	1	0
NON_INCAP INJ	11	0	16	0	0	5	6	0	1
INCAPACITATING INJ	8	0	12	0	0	3	3	1	1

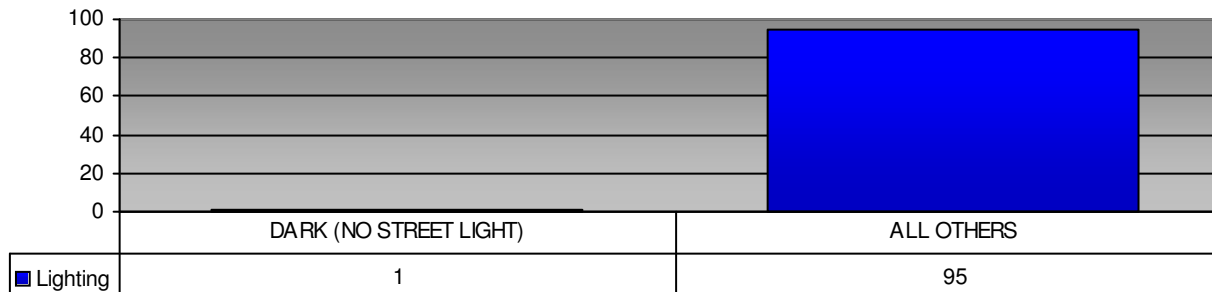
CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

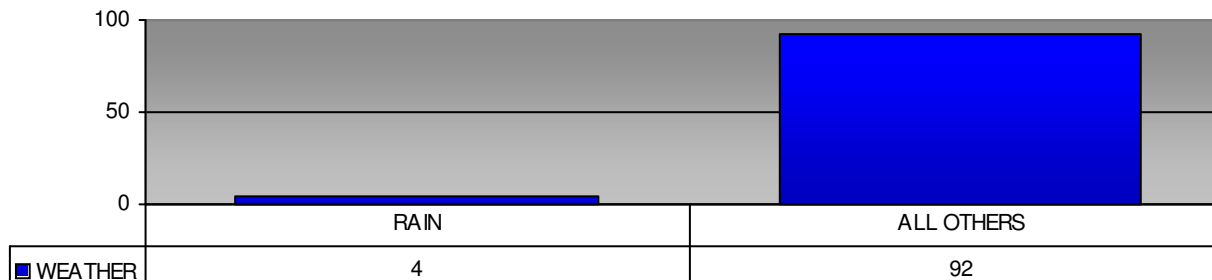
Date Range
1/7/2007 to 10/31/2010

Environmental Crash Distribution

Lighting	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
DAYLIGHT	75	0	22	0	0	15	24	3	2
DARK (STREET LIGHT)	16	0	6	0	0	6	9	0	0
DUSK	3	0	0	0	0	1	0	1	0
DAWN	1	0	0	0	0	0	1	0	0
DARK (NO STREET LIGHT)	1	0	0	0	0	0	1	0	0



Weather	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
CLEAR	69	0	17	0	0	15	21	3	2
CLOUDY	23	0	10	0	0	6	13	0	0
RAIN	4	0	1	0	0	1	1	1	0



CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Roadway Conditions Crash Distribution

Road Condition	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
NO DEFECTS	94	0	27	0	0	21	35	4	2
ALL OTHER (EXPLAIN)	2	0	1	0	0	1	0	0	0

Road Surface Type	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
BLACKTOP	96	0	28	0	0	22	35	4	2

Road Surface Condition	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
DRY	90	0	26	0	0	20	33	3	2
WET	6	0	2	0	0	2	2	1	0

Traffic Control	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
TRAFFIC SIGNAL	68	0	25	0	0	15	34	1	1
NO CONTROL	15	0	3	0	0	4	0	1	1
SPEED CONTROL SIGN	12	0	0	0	0	3	1	2	0
SPECIAL SPEED ZONE	1	0	0	0	0	0	0	0	0

Alignment	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
STRAIGHT-LEVEL	96	0	28	0	0	22	35	4	2

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

At Fault Vehicle Crash Distribution

Vehicle Type	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
AUTOMOBILE	59	0	19	0	0	16	25	2	1
PICKUP/LIGHT TRUCK (2 REAR	23	0	7	0	0	3	8	2	0
NONE	9	0	0	0	0	2	1	0	0
MEDIUM TRUCK (4 REAR TIRES	2	0	1	0	0	0	0	0	0
PASSENGER VAN	1	0	0	0	0	0	1	0	0
MOTORCYCLE	1	0	1	0	0	1	0	0	1
HEAVY TRUCK (2 OR MORE REA	1	0	0	0	0	0	0	0	0

Vehicle Movement	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
STRAIGHT AHEAD	62	0	16	0	0	8	19	1	1
MAKING LEFT TURN	12	0	9	0	0	6	11	0	0
CHANGING LANES	8	0	1	0	0	7	1	3	0
MAKING RIGHT TURN	5	0	1	0	0	1	2	0	0
SLOWING/STOPPED/STALLED	3	0	0	0	0	0	1	0	0
BACKING	3	0	1	0	0	0	0	0	1
MAKING U-TURN	2	0	0	0	0	0	1	0	0
PROPERLY PARKED	1	0	0	0	0	0	0	0	0

Vehicle Use	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
PRIVATE TRANSPORTATION	83	0	28	0	0	20	32	4	2
NONE	9	0	0	0	0	2	1	0	0
MILITARY	1	0	0	0	0	0	1	0	0
LAW ENFORCEMENT	1	0	0	0	0	0	0	0	0
GARBAGE OR REFUSE	1	0	0	0	0	0	0	0	0
COMMERCIAL CARGO	1	0	0	0	0	0	1	0	0

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Driver Characteristics Crash Distribution

<i>Alcohol / Drug Use</i>	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
NOT DRINKING OR USING DRU	83	0	28	0	0	20	31	4	2
NONE	9	0	0	0	0	2	1	0	0
DRUGS INVOLVED	3	0	0	0	0	0	2	0	0
ALCOHOL AND DRUGS	1	0	0	0	0	0	1	0	0

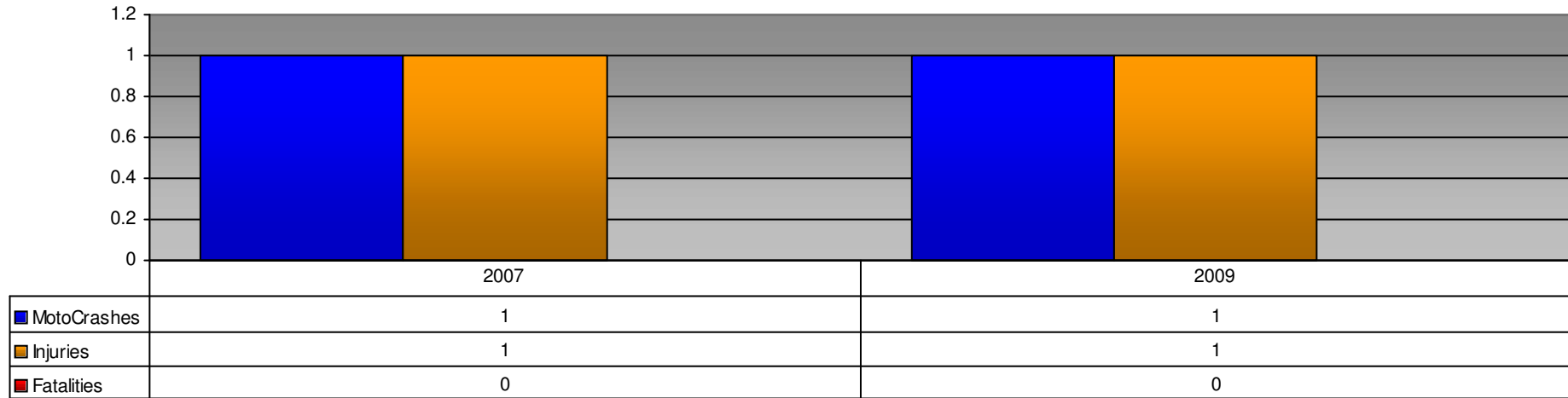
<i>Vision Obstruction</i>	Crashes	Fatalities	Inj.	Peds	Bike	SHSP - Emphasis Areas			
						Aggressive Driving	At Intersection	Lane Departure	Vulnerable User
VISION NOT OBSCURED	94	0	27	0	0	21	35	4	2
ALL OTHER (EXPLAIN)	2	0	1	0	0	1	0	0	0

CDMS Crash Data Summary Report

CR 1 @ Decubellis Rd/Massachusetts Av

Date Range
1/7/2007 to 10/31/2010

Motorcycle Crashes Trend



Top Motorcycle Crash Location

Node	On Street	Cross Street	Crashes
14_8789	CR 1	DECUBELLIS RD	2

APPENDIX E

Phase I Environmental Site Analysis

(Appendix is Double-Sided)





**PHASE I ENVIRONMENTAL
SITE ASSESSMENT**

Intersection Study

Little Rd. at Massachusetts Ave./Decubellis Rd.
New Port Richey, Pasco County, Florida

Universal Project No. 0830.1100134.0000

March 18, 2011

Prepared on behalf of:

Johnson Engineering, Inc.
20525 Amberfield Drive
Land O' Lakes, Florida 34638

Attention: Steven J. Shaw

Prepared by:

Universal Engineering Sciences, Inc.
9802 Palm River Drive
Tampa, Florida 33619
www.UniversalEngineering.com

Prepared by:
Kurt Hardy, P.E.
Senior Engineer

Signature

Reviewed by:
Zane Pierson
Project Geologist

Signature

Consultants in: Geotechnical Engineering • Environmental Sciences • Construction Materials Testing • Threshold Inspection
Offices in: Atlanta, GA • Daytona Beach, FL • Fort Myers, FL • Fort Pierce, FL • Gainesville, FL • Jacksonville, FL • Leesburg, FL • Miami, FL • Ocala, FL • Orange
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• West Palm Beach, FL

March 18, 2011

Steven J. Shaw
Branch Manager
Johnson Engineering, Inc.
20525 Amberfield Drive
Land O' Lakes, Florida 34638

Reference: **Phase I Environmental Site Assessment**
Intersection Study
Little Rd. at Massachusetts Ave./Decubellis Rd. Intersection
New Port Richey, Pasco County, Florida
Universal Project No. 0830.1100134.0000

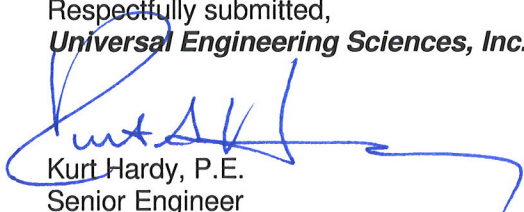
Dear Mr. Shaw:

Universal Engineering Sciences, Inc. (Universal) has completed the Phase I Environmental Site Assessment (ESA) following the American Society for Testing and Materials (ASTM) format E1527-05 for the above-referenced property. The purpose of this investigation was to identify recognized environmental conditions as described in ASTM E1527-05, which is consistent and compliant with the United States Environmental Protection Agency's (EPA) final *All Appropriate Inquiries* rule (effective November 1, 2006).

Based on the results of the Phase I ESA conducted at the Property, evidence of recognized environmental conditions were not identified based on Universal's review of regulatory and historical resources and our site reconnaissance. The potential for adverse environmental concern exists based on the three adjoining gasoline stations; however, no current evidence of environmental impact to the Property from these facilities was identified. Therefore, this assessment has revealed no evidence of RECs in connection with the Property at this time, and additional environmental assessment is not recommended at this time.

Universal appreciates this opportunity to provide environmental services to you and looks forward to future endeavors. Please contact the undersigned if you have any questions regarding this report.

Respectfully submitted,
Universal Engineering Sciences, Inc.


Kurt Hardy, P.E.
Senior Engineer


Zane Pierson
Project Geologist

Environmental Professional Statement

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

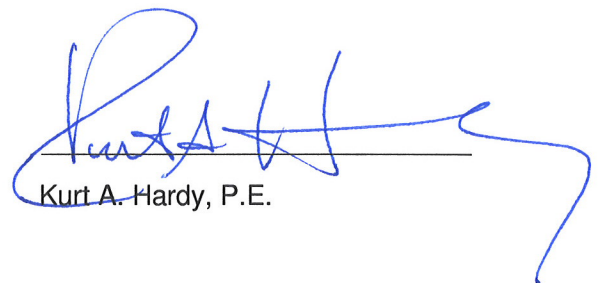
Intersection Study
Little Rd. at Massachusetts Ave./Decubellis Rd. Intersection
New Port Richey, Pasco County, Florida

Universal Project No. 0830.1100134.0000

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312

And

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Kurt A. Hardy, P.E.

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1.0 SUMMARY

The Property investigated as part of this Phase I Environmental Site Assessment (ESA) consists of the intersection of Little Road at Massachusetts Avenue/Decubellis Road in New Port Richey, Pasco County, Florida ("Property"). Please refer to the Topographic Map presented in **Appendix A-1** and the Land Use Map presented in **Appendix A-2** for additional information. Site photographs are provided in **Appendix B**.

Based on the findings of this Phase I ESA conducted in accordance with American Society for Testing and Materials (ASTM) format E1527-05, Universal concludes the following:

PROPERTY:

1. Universal did not identify any evidence of recognized environmental conditions (RECs) on the Property with respect to past or present uses of the Property based on field observations, historical research, and public records review.

SURROUNDING AREA:

2. Historical Gas Station adjoining to Northeast - This site is currently a vacant lot; however, petroleum discharges were reported on 10/23/1991 and 12/07/1988 from historical gas station operations. All five USTs registered for this facility were removed in 1999. The discharges were determined eligible for State funded cleanup under the EDI and PLIRP programs. This facility had a bay drain system which discharged through an oil-water separator to the north side of the site. This system was closed in 1993 and no contamination was identified associated with this system. Contaminated groundwater associated with the former UST system has undergone active remediation which was most recently discontinued in 2003 and the site is under post remedial monitoring. The November 2010 sampling event did not identify any parameters exceeding target levels. None of the reviewed data indicates contamination extending off of the site.
3. Current Mobil adjoining to Southwest - This facility is an active retail gasoline station. Three (3) 12,000-gallon unleaded gas USTs, installed in 1991, are registered as in-service at this facility. Regulatory inspection violations resulting in an enforcement case with the FDEP were identified prior to 2009; however, the property was in foreclosure and sold in 2009 at which time FDEP closed the enforcement case. Regulatory compliance inspections on 12/10/2009 and 11/29/2010 identified the facility as out of compliance. The 2009 inspection stated a minor out of compliance issue associated with water in the spill bucket sumps. The 2010 inspection listed a major out of compliance status with nine (9) violations including missing documentation, overdue insurance and release detection testing, and a leaking dispenser (placed out-of-order). A warning letter was issued by Pasco County stating the requested response was needed by 2/28/2011 otherwise, the case would be referred to FDEP for enforcement. No reported releases were identified associated with this facility at this time.
4. Current 7-Eleven adjoining to Southeast - Remedial action is currently ongoing at this open retail station, at which unleaded gasoline discharges were reported in 2003. Currently, four 10,000 gallon unleaded gas USTs are in registered as in service at this facility. Contamination assessment activities reported slightly elevated concentrations in 2005 and 2006 in a monitoring well near the Little Road right-of-way; however,

sampling activities in 2007 and 2008 reported concentrations below detection limits in this well. The February 2006 Remedial Action Plan stated that there “does not appear to be evidence that underground utilities have enhanced contaminant migration within the right-of-way”. Remedial activities were conducted from 2006 to 2008, at which time post remedial monitoring activities commenced. A February 2011 monitoring report recommended continued monitoring activities.

Although current or historical gas stations adjoin three corners of the Property, no evidence of contamination migration onto the Property has been documented based on the assessments at these facilities. Therefore, based on the results of the Phase I ESA conducted at the Property, Universal has identified no evidence of contamination migration onto the Property which would warrant further environmental investigation at this time.

2.0 INTRODUCTION

2.1 PURPOSE

The primary purpose of this assessment was to conduct an investigation of the Property and surrounding properties to identify recognized environmental conditions (RECs) and business environmental risks (BERs) associated with the past or present uses of the Property and neighboring properties. The term “recognized environmental condition” is defined as: “The presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de-minimus* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de-minimus* are not Recognized Environmental Conditions.”

The term “business environmental risk” is defined as: “A risk which can have a material environment or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.”

This environmental assessment was conducted following the ASTM E1527-05 Standard Practice for Environmental Site Assessments. This assessment was also intended to identify potential off-site contaminant sources within the distances set forth in ASTM E1527-05 guidelines. Methodology followed good commercial and customary practice with a goal to identify recognized environmental conditions that would be subject to an enforcement action if brought to the attention of appropriate government agencies.

2.2 DETAILED SCOPE OF SERVICES

The contracted scope of services consists of the preparation of a Phase I ESA of the Property in accordance with the requirements set forth in ASTM E1527-05. The accuracy, correctness and completeness of this Phase I ESA is provided with knowledge of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) as set forth in 42 United States Code Section 9601 et seq., as amended.

The scope of work does not include an evaluation of regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, radon, indoor air quality, site geotechnics (soils, foundations, site retention, etc.), wetlands, endangered species, construction materials testing, or vapor intrusion. Universal can provide these additional services, if necessary. Additionally, investigation of substances that are not included in the definition of hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) as set forth in 42 United States Code Section 9601 et seq., as amended, are beyond the scope of this Phase I ESA.

2.3 SIGNIFICANT ASSUMPTIONS

The documentation and data provided by the User or other interested parties, or from the public domain, and reviewed in the preparation of this assessment, have been used with the understanding that Universal assumes no responsibility or liability for their accuracy. All information obtained from the EDR reports is regarded as complete and factual. Please refer to Section 11.0 of this report for a discussion of deviations or data gaps associated with the assessment.

2.4 LIMITATIONS AND EXCEPTIONS

The findings of this report represent Universal's professional judgment; no warranty is expressed or implied. These findings are relevant to the dates of Universal's site work and the information cited herein. This report should not be relied upon to represent property conditions on other dates or at locations other than those specifically cited within the report. Universal can accept no responsibility for interpretations of these data made by other parties. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the Property.

2.5 SPECIAL TERMS AND CONDITIONS

This report, and the information contained herein, shall be the sole property of Universal until payment of any unpaid balance is made in full. Johnson Engineering, Inc., hereafter referred to as the User of this Phase I ESA report, agrees that until payment is made in full, the User shall not have proprietary interest in this report or the information contained herein. Universal shall have the absolute right to request the return of any and all copies of this report submitted to other parties, public or private, on behalf of the User in the event of nonpayment of outstanding fees by the User pursuant to Universal's General Conditions.

2.6 USER RELIANCE

This report is intended for the sole use of Johnson Engineering, Inc. Its contents may not be relied upon by other parties without the explicit written consent of Universal. This is not a statement of suitability of the Property for any use or purpose. In accepting this report, all parties herein mentioned agree to the General Conditions of the Agreement between Universal and Johnson Engineering, Inc.

3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The Property is the Little Rd. at Massachusetts Avenue/Decubellis Road Intersection in New Port Richey, Pasco County, Florida. The Property is located within Section 35, Township 25 South, Range 16 East as referenced in the 1998 "Port Richey, Florida" United States Geological

Survey (USGS) Topographic Quadrangle Map presented in **Appendix A-1** (USGS Topographic Map).

Universal was not provided with a survey depicting the boundaries of the Property; however, we obtained information about the Property from the Pasco County Property appraisers online Geographic Information System (GIS) based on the address provided. A legal description of the Property is included in property appraiser information found in **Appendix C-1**.

3.2 PROPERTY AND VICINITY CHARACTERISTICS

At the time of our assessment, the Property was the right-of-way and paved intersection of Little Road and Massachusetts Avenue / Decubellis Road. The intersection is a four-way signalized intersection with each approach road divided and equipped with a left turn lane. The Property is bordered on the northeast by a vacant lot, the northwest side by wooded undeveloped land, the southeast side by a 7-Eleven convenience store/gas station and the southwest side by a Mobil convenience store/gas station and small retail plaza. The Property vicinity is characterized by undeveloped land, residential and commercial land uses. Please refer to the USGS Topographic Map in **Appendix A-1** and the Property Layout Map in **Appendix A-2** for additional details.

3.3 CURRENT USE OF THE PROPERTY

At the time of the site reconnaissance, the Property was occupied by the right-of-way and paved intersection of Little Road and Massachusetts Avenue/Decubellis Road.

3.4 STRUCTURES, ROADS, AND/OR OTHER IMPROVEMENTS

The Property currently consists of a signalized intersection. No structures are located on the Property, therefore, no mechanical systems, including heating and/or cooling systems, or potable water or sanitary sewer system services, were identified serving the Property. Overhead utilities were observed along the roads and evidence of underground utilities were observed under the pavement and within the right-of-way.

3.5 CURRENT USES OF ADJOINING PARCELS

Currently, the parcels adjoining the Property are used as follows:

Table 1
Description of Adjoining Parcels

Direction From Property	Address	Description of Current Use
Northeast	7008 Little Road	Vacant, cleared lot. Monitoring wells were observed on this site from historical gas station use.
Northwest	No Address Listed	Wooded undeveloped land.
Southeast	6927 Little Road	7-Eleven gas station and convenience store.
Southwest	6926 Little Road	Mobil gas station and convenience store with car wash, with attached plaza (Ace Checks, Financial Services, and Metro PCS).

The current adjoining properties to the southeast and southwest are occupied by gas stations. Additionally, monitoring wells were observed on the adjoining site to the northeast, which was identified as a historical gas station. More information regarding these sites is included in the Regulatory Review discussion in Section 5.1.2. Please refer to the Land Use Map presented in **Appendix A-2**.

4.0 USER PROVIDED INFORMATION

4.1 TITLE RECORDS

A copy of the historical property ownership chain of title report was not provided to Universal as part of this Assessment.

4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The User did not provide any information regarding environmental liens or activity and use limitations for the Property.

4.3 SPECIALIZED KNOWLEDGE

The User did not provide any specialized knowledge associated with this assessment.

4.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Information pertaining to value reduction that may pertain to environmental issues in connection with the Property was not supplied to Universal.

4.5 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

According to the Pasco County Property Appraiser's office, the Property is currently owned by Pasco County.

4.6 REASON FOR PERFORMING PHASE I ESA

This Phase I ESA is being performed as a matter of due diligence.

4.7 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION ABOUT THE PROPERTY

The User did not supply Universal with any commonly known or reasonably ascertainable information.

4.8 OTHER

No other information or prior environmental reports were reviewed by Universal as part of this Phase I ESA.

5.0 RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

As a part of this assessment, Universal reviewed information sources to obtain existing information pertaining to a release of hazardous substances or petroleum products on or near the Property. Universal obtained an ASTM site search report through EDR and reviewed regulatory files for nearby facilities. Copies of selected regulatory records are presented in **Appendix D-1**. A copy of the EDR Radius Map report is contained in **Appendix D-2**. Universal also reviewed other available standard environmental record sources at the Florida Department of Environmental Protection (FDEP) and the FDEP OCULUS website. The following State and Federal sources were consulted during this record review:

State and County Database Review (FDEP)
FDEP/EPCHC, Leaking Underground Storage Tanks (LUST)

FDEP/EPCHC, RCRA/SQG
 FDEP, State Hazardous Waste Sites (SHWS)
 FDEP, Solid Waste Facilities/Landfill Sites (SWF/LS)
 FDEP, State Brownfield Areas (BROWNFIELDS)
 FDEP, Voluntary Cleanup Sites (VCP)
 FDEP, Institutional Controls Registry (Institutional & Engineering Controls)

Federal Database Review [United States Environmental Protection Agency (EPA)]

EPA, National Priorities List (NPL), including Delisted and Proposed NPL Sites
 EPA, Comprehensive Environmental Response Compensation and Liability Act Information System (CERCLIS)
 EPA, CERCLIS No Further Remedial Action Planned (CERCLIS-NFRAP)
 EPA, RCRA Treatment, Storage and Disposal (RCRA-TSD)
 EPA, RCRA Corrective Action Report (RCRA CORRACTS)
 EPA, RCRA Generators (RCRA GEN)
 EPA, Resource Conservation & Recovery Act Index System List (RCRIS)
 EPA, Institutional Controls Registry Database (Institutional & Engineering Controls)
 EPA, Emergency Response Notification System List (ERNS)
 EPA, RCRA Administrative Action Tracking System (RAATS)
 EPA, Brownfield Management System (BMS)
 EPA, Superfund Hazardous Waste Sites

Tribal Records

INDIAN RESERV, Indian Reservations
 INDIAN LUST, Leaking Underground Storage Tanks on Indian land
 INDIAN UST, Registered Underground Storage Tanks on Indian land

Table 2 lists the minimum search distances used during this assessment as set forth in ASTM E1527-05.

Table 2
 Minimum Search Distances - ASTM E1527-05

Source	Search Distance
Federal NPL Site List (National Priorities List)	1.0 mile
Federal Delisted NPL Site List	0.5 mile
Federal CERCLIS List (Comprehensive Environmental Response Compensation and Liability Act of 1980)	0.5 mile
Federal CERCLIS NFRAP Site List	0.5 mile
Federal RCRA CORRACTS Facilities List (Resource Conservation and Recovery Act)	1.0 mile
Federal RCRA non-CORRACTS TSD Facilities List	0.5 mile
Federal RCRA Generators List	Property & adjoining parcels
Federal Institutional Control/Engineering Control Registries	Property only
Federal ERNS List (Emergency Response Notification System)	Property only
States and Tribal Lists of Hazardous Waste Sites identified for investigation or remediation:	
State- and Tribal-equivalent NPL	1.0 mile
State- and Tribal-equivalent CERCLIS	0.5 mile
State and Tribal Landfill and/or Solid Waste Disposal Site Lists	0.5 mile
State and Tribal Leaking Storage Tanks Lists	0.5 mile
State and Tribal Registered Storage Tank Lists	Property & adjoining parcels
State and Tribal Institutional Control/Engineering Control Registries	Property only
State and Tribal Voluntary Cleanup Sites	0.5 mile
State and Tribal Brownfield Sites	0.5 mile

5.1.1 RECORDS REVIEW FOR THE PROPERTY

Universal reviewed available regulatory records pertaining to the Property. The Property was not listed on any state or county databases.

5.1.2 RECORDS REVIEW FOR THE SURROUNDING VICINITY

Universal reviewed available regulatory records pertaining to adjoining parcels and surrounding properties, as warranted. The following facilities were identified within the applicable ASTM minimum search distances.

TABLE 3
 Facilities Identified Within Minimum Search Distances

Facility Name & Address	Distance & Direction From Property	Database	Evaluation of Recognized Environmental Concerns
7-Eleven Food Store #32351 6926 Little Road New Port Richey, FL FDEP FAC #9800607	Southeast Adjoining Property	LUST UST Financial Assurance	Remedial action is currently ongoing at this open retail station. Unleaded gas discharges were reported on 12/1/2003 and 12/5/2003. Currently, four 10,000 gallon unleaded gas USTs are registered as in service at this facility. Contamination assessment activities reported slightly elevated concentrations in 2005 and 2006 in a monitoring well near the Little Road right-of-way; however, sampling activities in 2007 and 2008 reported concentrations below detection limits in this well. The February 2006 Remedial Action Plan stated that there "does not appear to be evidence that underground utilities have enhanced contaminant migration within the right-of-way". Remedial activities were conducted from 2006 to 2008, at which time post remedial monitoring activities commenced. A February 2011 monitoring report recommended continued monitoring activities.
Mobil #02-AM5 7008 Little Road New Port Richey, FL FDEP FAC #8515011	Northeast Adjoining Property	LUST UST RCRA-SQG FINDS	This site is currently a vacant lot. Petroleum discharges were reported on 10/23/1991 and 12/07/1988. The discharges were determined eligible for State funded cleanup under the EDI and PLIRP programs. This facility had a bay drain system which discharged through an oil-water separator to the north side of the site. This system was closed in 1993 and no contamination was identified associated with this system. Contaminated groundwater associated with the former UST system has undergone active remediation which was most recently discontinued in 2003 and the site is under post remedial monitoring. The November 2010 sampling event did not identify any parameters exceeding target levels. None of the reviewed data indicates contamination extending off of the site. All five USTs registered for this facility were removed in 1999. This facility was also listed as a RCRA-Small Quantity Generator (SQG), with no violations reported.
Fadi Malki Inc. 6927 Little Road New Port Richey, FL FDEP FAC #9103522	Southwest Adjoining Property	UST	This facility is an active retail gasoline station. Three (3) 12,000-gallon unleaded gas USTs, installed in 1991, are registered as in-service at this facility. Regulatory inspection violations resulting in an enforcement case with the FDEP were identified prior to 2009; however, the property was in foreclosure and sold in 2009 at which time FDEP closed the enforcement case. Regulatory compliance inspections on 12/10/2009 and 11/29/2010 identified the facility as out of compliance. The 2009 inspection stated a minor out of compliance issue associated with water in the spill bucket sumps. The 2010 inspection listed a major out of compliance status with nine (9) violations including missing documentation, overdue insurance and release detection testing, and a leaking dispenser (placed out-of-order). A warning letter was issued by Pasco County stating the requested response was needed by 2/28/2011 otherwise, the case would be referred to FDEP for enforcement. No reported releases were identified associated with this facility.
Amoco Split Second #60591 6927 Little Road New Port Richey, FL EPA ID# FLD984241422	Southwest Adjoining Property	FINDS RCRA-SQG	This facility is listed with the same address as the facility above, and was listed as a RCRA-SQG, with no violations reported.

Facility Name & Address	Distance & Direction From Property	Database	Evaluation of Recognized Environmental Concerns
7030 Little Road New Port Richey, FL	200 ft. East	DEDB	This facility is a residence which had a private well tested in 1991 and reported with elevated MTBE concentrations. The site was connected to the municipal water system.
West Pasco Tire 7030 Little Road New Port Richey, FL EPA ID# FL0000093328	200 ft. East	FINDS RCRA- CESQG	This facility is listed with the same address as the DEDB site above; however, it currently appeared as a residence. No RCRA violations or other database listings were reported for this facility.

In addition to reviewing the EDR report, Universal performed a reconnaissance of the Property vicinity to identify any orphan sites not mapped by EDR due to inadequate or inaccurate address information and to look for unregistered facilities. No additional facilities were identified.

5.2 ADDITIONAL ENVIRONMENTAL RECORDS

Universal reviewed the FDEP Map Direct: Water Data Central webpage, which did not identify any additional facility listings for the Property or adjoining properties.

5.3 PHYSICAL SETTING SOURCES

The photo revised 1998 "Port Richey, FL" USGS topographic quadrangle map, United States Department of Agriculture (USDA)-Soil Conservation Service-Soil Survey of Pasco County, Florida, and regulatory files available regarding properties of environmental concern in the property vicinity were reviewed as sources for obtaining information regarding the physical setting of the Property and surrounding vicinity.

5.3.1 TOPOGRAPHY

The USGS topographic quadrangle map titled "Port Richey, FL" dated 1998 was referenced as a source for obtaining information regarding the physical setting of the Property and surrounding vicinity. The Property is located approximately 24 feet above sea level. The topography of the general area around the Property is somewhat level with slope in the general area to the southwest. The topographic map shows the intersection and approaching roads; however, Decubellis Road is depicted as unimproved. Structures are indicated on the adjoining properties to the northeast and southeast, and agricultural use is shown on the adjoining site to the northwest.

A copy of a portion of the USGS Quadrangle Map is provided in **Appendix A-1** (USGS Topographic Map).

5.3.2 SOIL/GEOLOGY

The geologic units encountered in Pasco County, Florida include the Ocala Limestone, Hawthorn Group, Hawthorn Group, Arcadia Formation, Tampa Member, Suwannee Limestone, and undifferentiated sediments.

The Oligocene Suwannee Limestone generally lies below the Hawthorn Group sediments in the region. The upper portion of the limestone bedrock is highly variable due to weathering and contacts between the Hawthorn clayey sediments and the underlying Suwannee Limestone are highly variable. It is not uncommon for limestone to be found at shallow depths in the area.

The surficial soils underlying the site and the general vicinity are comprised of undifferentiated Quaternary sands deposited in former near shore marine environments. These surficial sands extend to depths of approximately 10 to 50 feet.

The surficial sands in this area are generally underlain by mid-Miocene clays. The contact between the upper sands and underlying clayey strata are oftentimes gradational in nature and may vary in thickness due to underlying bedrock geology.

The USDA Soil Conservation Service Soil Survey lists the surficial soil series across the property as Tavares sand (0 to 5 percent slopes). Tavares sand is described as moderately well drained found on low ridges and knolls throughout the county. The series has 0 to 5 percent slopes and the depth to water is 40 to 60 inches below land surface (in bls). The series contains fine sand from 0 to 80 in bls. A copy of the USDA Soil Survey report is provided in **Appendix C-2**.

5.3.3 HYDROGEOLOGY

The direction of the surficial aquifer flow usually follows the topography of the land and flows toward surface bodies of water. Actual local groundwater flow direction can be influenced by factors such as surface topography, surface water bodies, underground structures, seasonal fluctuations in rainfall, soil and bedrock geology, and nearby production wells. Site-specific groundwater flow can only be determined by the installation of piezometers.

According to the Florida Department of Environment Protection, the Intermediate Aquifer system outcrops in this region of Pasco County. The intermediate aquifer is under confined conditions and is located between the surficial aquifer and underlying Floridan aquifer. The aquifer is comprised of permeable layers of sand and limestone between impermeable layers.

Per potentiometric surface maps, the average potentiometric surface of the underlying Upper Florida aquifer is sixty feet above sea level. Based on nearby water bodies, groundwater is estimated to flow toward the southwest in the vicinity of the Property, and adjoining property contamination assessment reports reported groundwater flow in a southerly direction.

5.3.4 WETLANDS

Review of the USGS Topographic Map indicated that wetland areas are not depicted on the Property or adjacent properties. Please note that maps may not identify small areas of wetlands, and only a site-specific wetland survey can determine the presence or absence of regulated wetland areas. Any development of wetland areas, or of areas that might disturb wetlands, should be coordinated with applicable federal, state, and local agencies.

5.3.5 FLOOD PLAIN

Review of the Flood Map (refer to EDR) indicated that the Property is located in an area outside the 500-year flood plain.

5.3.6 RADON INFORMATION

Review of the USEPA's Radon Map for Pasco County, Florida indicated that the Property is located in Zone 3, areas with a predicted average indoor radon screening level less than 2 pCi/L (picoCuries per liter of air). The USEPA uses a continuous exposure level of 4.0 pCi/L as an action level at which additional action is recommended.

Radon sampling was not performed as part of this assessment. In addition, the type of construction, the presence of commercial HVAC systems, and the use of the building may alter the potential for the build-up of radon gas at the Property.

5.4 HISTORICAL USE INFORMATION ON PROPERTY

Universal based its historical review of the Property on available historical aerial photographs, Hillsborough County Property Appraiser website, the EDR City Directory, and the site walkthrough.

Based on our historical review, the Property was used as a road intersection since at least 1941.

5.4.1 AERIAL PHOTOGRAPH REVIEW

To evaluate the previous land uses of the Property and surrounding area, Universal reviewed aerial photographs available from Pasco County, the Florida Department of Transportation (FDOT), and EDR. Copies of selected aerial photographs are provided in **Appendix E-1**. The aerial photographs provide a progressive overview of parcels pertaining to this assessment. Descriptions of Universal's observations are outlined in Table 4.

TABLE 4 Summary of Aerial Photograph Observations		
Photograph Date	Photograph Quality	Remarks
1941	Black and White, Fair	The Property appears as a road intersection with approach roads from the north and west. An apparent trail is visible approaching from the east. The adjoining properties are undeveloped land or used as farmland. The vicinity of the Property consists of farmland and undeveloped areas.
1957	Black and White, Fair	The approach road from the east appears to have been aligned into the intersection. Additionally, a road extending south is apparent. Residential homes are visible along the east side of Little Road.
1977	Black and White, Fair	No significant differences noted to the Property from the prior aerial photograph; however, Little Road south of the intersection has been extended.
1985	Black and White, Fair	The intersection appears aligned and improved. More residential development is visible in the surrounding area. An apparent gasoline station is visible to the northeast of the intersection.
1998	Black and White, Fair	The approaching roads to the north, south, and east appear to have medians approaching the intersection. Massachusetts Avenue to the west appears under construction for widening. More commercial development, including a gasoline station on the southwest corner of the intersection, is apparent.
2005	Black and White, Good	The approaching roads appear widened. An apparent gasoline station is visible on the southeast corner of the intersection.
2006	Color, Excellent	No significant differences noted to the Property from the prior aerial photograph.

5.4.2 PROPERTY OWNERSHIP RECORDS/ENVIRONMENTAL LIENS

According to the Pasco County Property Appraiser's office, the Property is currently owned by Pasco County. A copy of the historical property ownership chain-of-title report was not provided to Universal or conducted as part of the scope of services as part of this Phase I ESA.

5.4.3 SANBORN[®] FIRE INSURANCE MAP REVIEW

EDR conducted a review of the largest and most complete collection of Sanborn[®] fire insurance maps based on information pertaining to the Property location provided by Universal. According to EDR, Sanborn[®] Map coverage for the Property vicinity is not available from this source. A copy of the EDR report listing no coverage is included in **Appendix E-2**.

5.4.4 CITY DIRECTORY REVIEW

Universal reviewed the EDR City Directory Abstract available in **Appendix E-3**. City, cross reference, and telephone directories for properties in the immediate vicinity of the Property were reviewed for the years 1959 through 1997. As the Property is an intersection, no historical city directory listings for the Property were identified. The city directory review did not reveal the historical presence of additional businesses not listed in the State or Federal records that may be considered a significant environmental concern to the Property.

5.4.5 LAND USE RECORDS

Universal was not provided with any land use records.

5.4.6 OTHER HISTORICAL SOURCES

Universal did not review any additional historical sources.

5.5 HISTORICAL USE INFORMATION ON ADJOINING PARCELS

Universal based its historical review of the Property on available aerial photographs, topographic maps, Pasco County Property Appraiser website, the EDR City Directory, interviews, and the site walkthrough. No information was available for the adjoining properties prior to 1941.

7008 Little Road (Northeast): This property was undeveloped land in 1941. The site appeared as cleared vacant land between at least 1957 and 1977. From at least 1985 to 2006, the site appeared occupied by a gasoline station. City directories indicated the site was a Jallo Shell gas station and Little Mobil gas station in 1997.

No Address Listed (Northwest): This property was undeveloped land in 1941. The site was part of agricultural land (groves) in 1951; however, no structures or operational areas are visible near the Property. From 1977 to present, the site has appeared as undeveloped land.

6927 Little Road (Southeast): This property appeared as cleared undeveloped land from at least 1941 to 1998. This property has been used occupied by a gasoline station from at least 2005 to present.

6926 Little Road (Southwest): This property appeared as undeveloped land from at least 1941 to 1985. This property has been used occupied by a gasoline station from at least 1998 to present. City directories indicated the site was a Split Second grocery in 1997.

The historical use information of the adjoining properties did not reveal any RECs in connection with the Property.

6.0 INFORMATION FROM SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

On March 4, 2011, a walkover reconnaissance of the Property was completed by Mr. Kurt Hardy, Senior Engineer with Universal's Tampa branch office. Mr. Hardy was unescorted during the site reconnaissance. The purpose of the site visit was to assess the current conditions of the Property and to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the Property. The reconnaissance included traversing portions of the parcel in a grid like manner and walking the site perimeter. This visual inspection of the property focused primarily on surface features. Site photographs are presented in **Appendix B**.

Areas accessed included all common accessible areas and the Property boundaries.

6.2 GENERAL SITE SETTING

At the time of our assessment, the Property consisted of the right-of-way and paved intersection of Little Road and Massachusetts Avenue / Decubellis Road. The intersection is a four-way signalized intersection with each approach road divided and equipped with a left turn lane. The Property is bordered on the northeast by a vacant lot, the northwest side by wooded undeveloped land, the southeast side by a 7-Eleven convenience store/gas station and the southwest side by a Mobil convenience store/gas station and small retail plaza. The Property vicinity is characterized by undeveloped land, residential and commercial land uses.

6.3 EXTERIOR OBSERVATIONS

During the site reconnaissance, a Universal representative inspected the Property to identify any storage tanks, odors, pools of liquid, drums, hazardous substance and petroleum product containers, unidentified substance containers, or PCB's. The representative also inspected the Property to identify the presence of any pits, ponds, lagoons, stained or soiled pavement, stressed vegetation, solid waste, waste water, wells, septic systems, and any other evidence of improper disposal, discharge, or waste handling activities.

HAZARDOUS/REGULATED WASTES

Visual observation for the generation, treatment, storage, and disposal of wastes was performed. The Property is currently a road intersection, and no wastes were observed. The Property is not involved in the generation, treatment, storage, or disposal of hazardous, regulated, or medical wastes.

STORAGE TANKS

Visual observations for manways, vent pipes, fill connections, concrete pads, and saw cuts in paved areas did not identify any surface connections or disturbances that would indicate the potential for an underground storage tank (UST) installation at the Property. Based on the review of the state list of registered USTs, no USTs are registered for the Property.

No aboveground storage tanks (ASTs) were observed at the Property.

Visual observations did not identify any surface markings indicating the existence of subsurface product pipelines at the Property.

TRANSFORMERS

Pole-mounted electrical transformers were observed within the right-of-way of the Property. The transformers are designated as the property of the public utility, and Non-PCB labels were observed on the transformers. If leakage is visible, the Property owner/manager should contact the public utility, which will remediate the situation. No leakage of the transformers was observed at the time of the assessment.

No additional equipment with the potential to utilize dielectric or hydraulic fluid was observed on the Property during the site assessment.

DISTRESSED VEGETATION / STAINING

Visual observation of the Property and adjacent properties did not identify any evidence of distressed vegetation, staining, or surface migration of petroleum releases or hazardous materials onto or off the Property.

SURFACE IMPOUNDMENTS, DUMPING, PITS, AND LAGOONS

Visual observations did not identify any evidence of on-site surface impoundment facilities, pits, lagoons, or dumping of apparent hazardous substances at the Property.

In summary, Universal did not identify any liquid waste dumping or disposal, seeps, or roads/paths with no outlet likely to have been used for disposal of hazardous wastes or petroleum products hazardous substances/wastes, underground storage tanks (USTs), aboveground storage tanks (ASTs), unidentified substance containers, pits, ponds, lagoons, ditches, pools of liquid, drums, wells, sumps, seeps, pungent/noxious odors, electrical/hydraulic equipment known to contain polychlorinated biphenyls (PCBs), stained soils, stressed vegetation, significant solid waste, septic systems, or emergency generators on the Property based on our field observations, interviews, and historical and public records review.

6.4 INTERIOR OBSERVATIONS

No structures were found on the Property. Visual observation for the use and/or storage of hazardous materials and petroleum products was performed. The Property is currently a road intersection and no hazardous materials or petroleum products were observed on the Property.

7.0 INTERVIEWS

7.1 INTERVIEW WITH OWNER/ KEY SITE MANAGER/ OCCUPANTS

An interview with the owner of the Property was not available during this assessment. As the Property is unoccupied, no occupant interviews were available.

7.2 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS/OTHERS

Universal contacted public agencies regarding file information for building and property appraiser information as listed in this report; however, no interviews with others were conducted or deemed necessary during this assessment.

Universal reviewed database information from the Florida Department of Environmental Protection's (FDEP) OCULUS database. This database is used to review reports submitted to the FDEP for specific facilities. The nearby facilities identified during the regulatory database search were reviewed. Pertinent information from the review is included in **Appendix D-1**.

8.0 FINDINGS

The following findings are based on Universal's assessment of the Property:

PROPERTY

1. Universal did not identify any evidence of recognized environmental conditions (RECs) or business environmental risks (BERs) on the Property with respect to past or present uses of the Property based on field observations, historical research, and public records review.
2. Universal found no evidence indicating the presence of hazardous substances/wastes, underground storage tanks (USTs), aboveground storage tanks (ASTs), unidentified substance containers, pits, ponds, lagoons, ditches, pools of liquid, drums, wells, sumps, seeps, pungent/noxious odors, electrical/hydraulic equipment known to contain polychlorinated biphenyls (PCBs), stained soil or pavement, stressed vegetation, solid waste, septic systems, or emergency generators on the Property based on our field observations and historical and public records review.
3. The Property was not listed in any of the databases searched by EDR.

SURROUNDING AREA

4. The EDR Radius Report identified a DEDB database listing and RCRA generator facility approximately 200 feet east of the Property. Based on review of available regulatory records, coupled with distances and/or directions from the Property and activities, it is Universal's opinion that facility does not constitute a REC in connection with the Property.
5. Historical Gas Station adjoining to Northeast - This site is currently a vacant lot; however, petroleum discharges were reported on 10/23/1991 and 12/07/1988 from historical gas station operations. All five USTs registered for this facility were removed in 1999. The discharges were determined eligible for State funded cleanup under the EDI and PLIRP programs. This facility had a bay drain system which discharged through an oil-water separator to the north side of the site. This system was closed in 1993 and no contamination was identified associated with this system. Contaminated groundwater associated with the former UST system has undergone active remediation which was most recently discontinued in 2003 and the site is under post remedial monitoring. The November 2010 sampling event did not identify any parameters exceeding target levels. None of the reviewed data indicates contamination extending off of the site.
6. Current Mobil adjoining to Southwest - This facility is an active retail gasoline station. Three (3) 12,000-gallon unleaded gas USTs, installed in 1991, are registered as in-service at this facility. Regulatory inspection violations resulting in an enforcement case with the FDEP were identified prior to 2009; however, the property was in foreclosure and sold in 2009 at which time FDEP closed the enforcement case. Regulatory compliance inspections on 12/10/2009 and 11/29/2010 identified the facility as out of compliance. The 2009 inspection stated a minor out of compliance issue associated with water in the spill bucket sumps. The 2010 inspection listed a major out of compliance status with nine (9) violations including missing documentation, overdue insurance and release detection testing, and a leaking dispenser (placed out-of-order). A warning letter was issued by Pasco County stating the requested response was

needed by 2/28/2011 otherwise, the case would be referred to FDEP for enforcement. No reported releases were identified associated with this facility at this time.

7. Current 7-Eleven adjoining to Southeast - Remedial action is currently ongoing at this open retail station, at which unleaded gasoline discharges were reported in 2003. Currently, four 10,000 gallon unleaded gas USTs are in registered as in service at this facility. Contamination assessment activities reported slightly elevated concentrations in 2005 and 2006 in a monitoring well near the Little Road right-of-way; however, sampling activities in 2007 and 2008 reported concentrations below detection limits in this well. The February 2006 Remedial Action Plan stated that there "does not appear to be evidence that underground utilities have enhanced contaminant migration within the right-of-way". Remedial activities were conducted from 2006 to 2008, at which time post remedial monitoring activities commenced. A February 2011 monitoring report recommended continued monitoring activities.

9.0 OPINION

Based on the results of the Phase I ESA conducted at the Property, evidence of recognized environmental conditions has not been identified based on Universal's review of regulatory and historical resources and site reconnaissance. The potential for adverse environmental concern exists based on the three adjoining gasoline stations; however, no current evidence of environmental impact from these facilities was identified. Therefore, this assessment has revealed no evidence of RECs in connection with the Property at this time. As such, further environmental assessment does not appear warranted at this time.

10.0 CONCLUSIONS

Universal has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-05 on the Property, located at Little Rd. at Massachusetts Ave./Decubellis Rd. Intersection in New Port Richey, Pasco County, Florida. Any exceptions or deletions from this practice are described in Sections 2.2, 2.3, 2.4 and 11.0 of this report. The potential for adverse environmental concern exists based on the three adjoining gasoline stations; however, no current evidence of environmental impact from these facilities was identified. Therefore, this assessment has revealed no evidence of RECs in connection with the Property at this time.

11.0 DEVIATIONS AND DATA GAPS

Universal performed this Phase I ESA in accordance with the scope and limitations of ASTM Practice E1527-05. In accepting this report, all parties agree to the General Conditions of the Agreement between Universal and Johnson Engineering, Inc. No exceptions to or deletions from this practice were noted. It should be noted that the client questionnaire was not returned to Universal at the time of publication of this report.

The Environmental Professional did not encounter any significant data gaps during this Phase I ESA. Significant data gaps are those that affect the ability of the Environmental Professional to identify recognized environmental conditions. The Property is located in an area that was not historically developed, thus limiting typically overlapping historical resources (i.e., aerial photographs, city directories, etc.); however, none of the reviewed documentation suggests this limitation affected the ability to identify recognized environmental conditions on the Property.

12.0 ADDITIONAL SERVICES

No additional services were performed by Universal.

13.0 REFERENCES

1. ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
2. The 1998 "Port Richey, Florida" United States Geological Survey (USGS) topographic quadrangle map.
3. Environmental Data Resources Inc., search reports (EDR).
4. Land Boundary Information System (LABINS), Florida Department of Environmental Protection (FDEP).
5. Florida Department of Transportation, Survey and Mapping Office, Florida Aerial Photography Archive Collection.
6. U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS) Soil Survey
7. Pasco County, Florida Property Appraiser website.
8. Florida Department of Environmental Protection (Southwest District).
9. Florida Department of Environmental Protection (FDEP),
<http://ca.dep.state.fl.us/mapdirect/?focus=waterdatacentral>.
10. FDEP-Oculus website available at: <http://dwmedms.dep.state.fl.us/Oculus>.

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Please refer to the title page for signatures of the environmental professionals who prepared and reviewed this Phase I ESA.

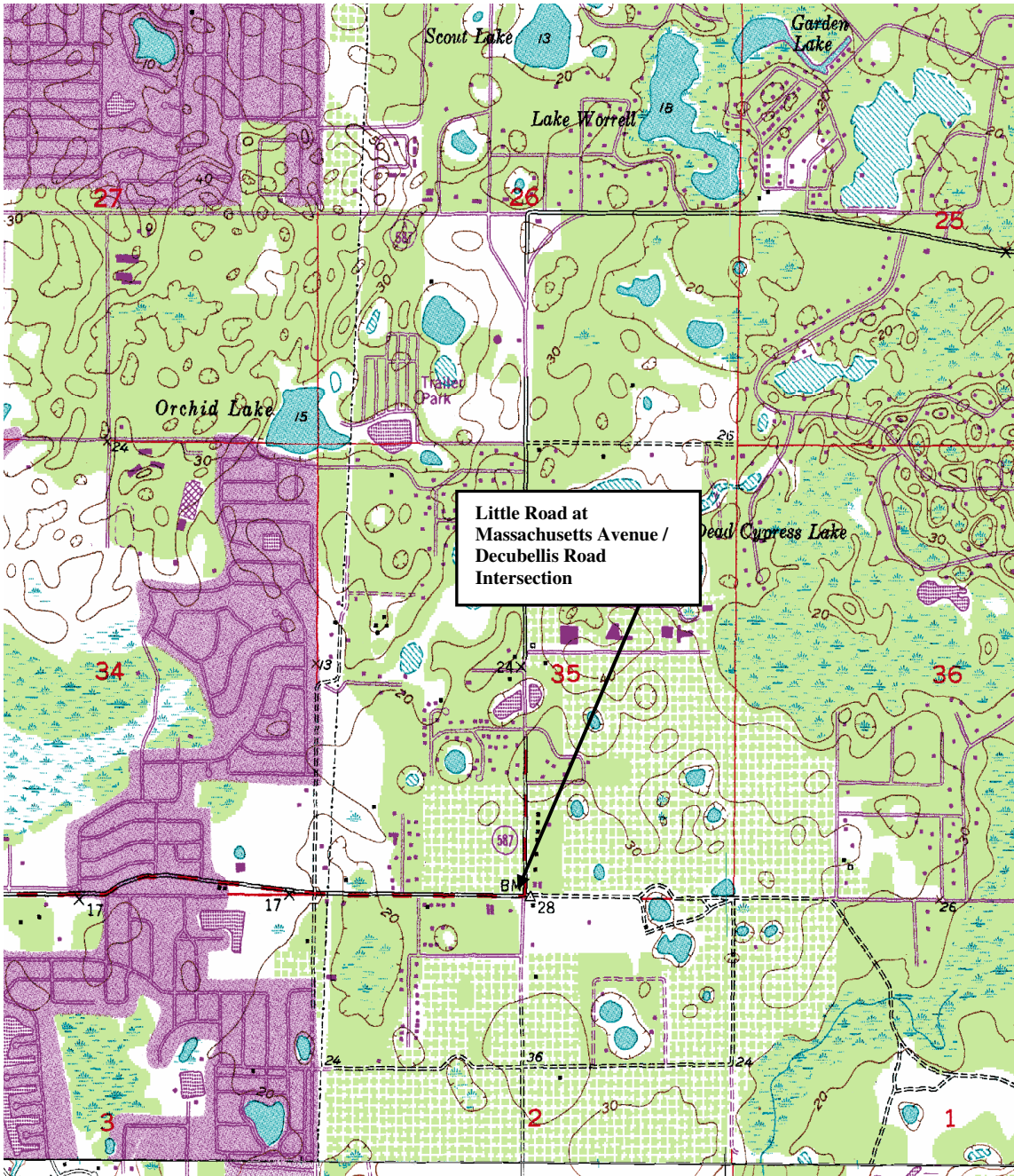
15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This assessment was completed by Zane Pierson, project geologist, and Kurt Hardy, P.E., Senior Engineer, both employees of Universal Engineering Sciences, Inc. Messrs. Pierson and Hardy, to the best of their professional knowledge and belief, meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and has the specific qualifications based on education, training, and/or experience to assess a property of the nature, history and setting of the Property. Universal has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Qualifications of personnel participating in this assessment are provided in **Appendix F**.

Appendix A

A-1: USGS Topographic Map

A-2: Property Layout Map



**LITTLE ROAD AT MASSACHUSETTS AVENUE/DECUBELLIS ROAD
INTERSECTION
NEW PORT RICHEY, PASCO COUNTY, FLORIDA**



**UNIVERSAL
ENGINEERING SCIENCES**

USGS TOPOGRAPHIC MAP

DRAWN BY: KH

DATE: 3/14/2011

CHECKED BY: ZP

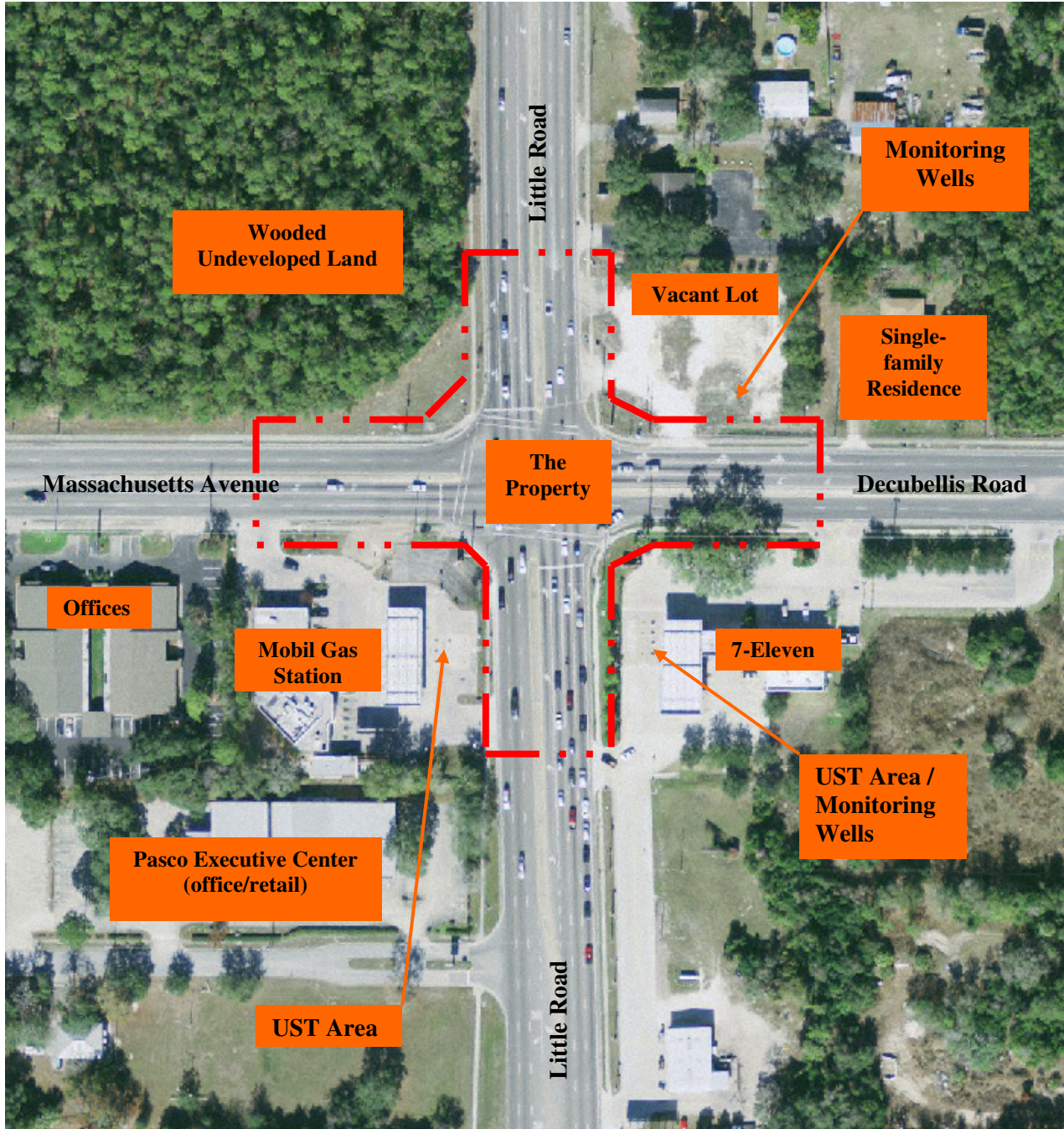
DATE: 3/14/2011

SCALE: N.T.S.

PROJECT NO: 0830.1100134

REPORT NO:

FIGURE NO: A-1



UNIVERSAL
ENGINEERING SCIENCES

**LITTLE ROAD AT MASSACHUSETTS AVENUE/DECUBELLIS ROAD
INTERSECTION
NEW PORT RICHEY, PASCO COUNTY, FLORIDA**

PROPERTY SITE PLAN

DRAWN BY: KH

DATE: 3/14/2011

CHECKED BY: ZP

DATE: 3/14/2011

SCALE: N.T.S.

PROJECT NO: 0830.1100134

REPORT NO:

FIGURE NO: A-2

Appendix B

Site Photographs

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 1: An aerial view of the intersection (Property).



Photograph 2: Looking east along Massachusetts Avenue at the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 3: Looking east along Massachusetts Avenue at the intersection.



Photograph 4: Looking south along Little Road at the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 5: Looking south along Little Road at the intersection.



Photograph 6: Looking west along Decubellis Road at the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 7: Looking west along Decubellis Road at the intersection.



Photograph 8: Looking north along Little Road at the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 9: Looking north along Little Road at the intersection.



Photograph 10: Looking northwest across the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 11: Looking northeast across the intersection.



Photograph 12: Vacant lot and monitoring wells at the northeast corner of the intersection which was formerly occupied by a gasoline station.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 13: Mobil gasoline station and small plaza at the southwest corner of the intersection.



Photograph 14: looking southeast across the intersection.

Appendix B

Little Road at Massachusetts Avenue / Decubellis Road Intersection, New Port Richey, Pasco County, Florida

SITE PHOTOGRAPHS



Photograph 15: Monitoring well and vent lines for the 7-Eleven gasoline station.



Photograph 16: Remediation system equipment at the 7-Eleven gasoline station.

Appendix C

C-1: Property Records
C-2: USDA Soil Survey Report

[Search Again](#) [Map](#) Building Schematic Unavailable [Frequently Asked Questions](#) [Estimate Taxes](#)

Other Agency Data: [Tax Collector](#) [School Board](#) [Supervisor of Elections](#)

Data Current as Of:	Weekly Archive - Saturday, March 05, 2011							
Parcel ID	35-25-16-0000-49900-0010 (Card: 001 of 001)							
Classification	82 - Forests, Parks, etc.							
Mailing Address				Property Value				
PASCO COUNTY FACILITIES MANAGEMENT DEPT 7220 OSTEEN RD NEW PORT RICHEY FL 34653-2359				Ag Land \$0				
Physical Address				Land \$38,613				
Physical Address N/A				Building \$0				
Legal Description (First 4 Lines)				Extra Features \$0				
LITTLE ROAD R/W AKA CR-1 IN SECTION 35 IN PART AS PER CASE NO. 88-3985CA DIV G				Market Value \$38,613				
				Assessed (Non-School Amendment 1) \$38,613				
				Taxable Value \$0				
Land Detail (Card: 001 of 001)								
Line	Use	Description	Zoning	Units	Type	Price	Condition	Value
1	9400	RIGHTOFWAY	00C1	16.98	AC	\$22,740.00	0.10	\$38,613
Additional Land Information								
Acres	16.98	Tax Area	6200	FEMA Code	--	Residential Code	2SWP.M2	
Building Information (Card: 001 of 001)								
Unimproved Parcel 00 - Unimproved								
Extra Features (Card: 001 of 001)								
Line	Description		Year	Units	Value			
No Extra Features								
Sales History								
Previous Owner				N/A				
Year	Month	Book/Page		Type	Amount			
-- No Sales History --								

[Search Again](#) [Map](#) Building Schematic Unavailable [Frequently Asked Questions](#) [Estimate Taxes](#)

Other Agency Data: [Tax Collector](#) [School Board](#) [Supervisor of Elections](#)



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Pasco County, Florida



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://soils.usda.gov/sqi/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nracs>) or your NRCS State Soil Scientist (http://soils.usda.gov/contact/state_offices/).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND






















Area of Interest (AOI)




 Area of Interest (AOI)

Soils




 Soil Map Units

Special Point Features


-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

-  Very Stony Spot
-  Wet Spot
-  Other



Special Line Features

-  Gully
-  Short Steep Slope
-  Other






Political Features

-  Cities

Water Features

-  Oceans
-  Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

MAP INFORMATION

Map Scale: 1:1,200 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 17N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pasco County, Florida
 Survey Area Data: Version 8, Jan 27, 2010

Date(s) aerial images were photographed: 8/13/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Pasco County, Florida (FL101)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Tavares sand, 0 to 5 percent slopes	2.2	100.0%
Totals for Area of Interest		2.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Pasco County, Florida

6—Tavares sand, 0 to 5 percent slopes

Map Unit Setting

Elevation: 10 to 150 feet

Mean annual precipitation: 50 to 58 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 324 to 354 days

Map Unit Composition

Tavares and similar soils: 90 percent

Minor components: 10 percent

Description of Tavares

Setting

Landform: Ridges on marine terraces, knolls on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Eolian or sandy marine deposits

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 to 50.02 in/hr)

Depth to water table: About 42 to 72 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Land capability (nonirrigated): 3s

Ecological site: Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Typical profile

0 to 3 inches: Sand

3 to 80 inches: Sand

Minor Components

Adamsville

Percent of map unit: 2 percent

Landform: Rises on marine terraces, flats on marine terraces

Landform position (three-dimensional): Interfluve, talf

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: South Florida Flatwoods (R154XY003FL)

Astatula

Percent of map unit: 2 percent

Custom Soil Resource Report

Landform: Ridges on marine terraces, hills on marine terraces

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: Sand Pine Scrub (R154XY001FL)

Candler

Percent of map unit: 2 percent

Landform: Ridges on marine terraces, knolls on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Sparr

Percent of map unit: 2 percent

Landform: Rises on marine terraces, flats on marine terraces

Landform position (three-dimensional): Interfluve, rise

Down-slope shape: Convex

Across-slope shape: Linear

Millhopper

Percent of map unit: 2 percent

Landform: Rises on marine terraces, flats on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. <http://soils.usda.gov/>

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. <http://soils.usda.gov/>

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. <http://soils.usda.gov/>

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. <http://soils.usda.gov/>

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.glti.nrcs.usda.gov/>

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. <http://soils.usda.gov/>

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. <http://soils.usda.gov/>

Custom Soil Resource Report

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210.

Appendix D

D-1: Regulatory Review Documentation

D-2: The EDR Radius Map



Rick Scott
Governor

CERTIFIED MAIL #7004 2510 0000 1305 1595

Pasco County Health Department
4135 Land O' Lakes Blvd.
Land O' Lakes, FL 34639

February 10, 2011

Fadi Malki, Inc
4923 Felecity Way
Palm Harbor, FL 34685-3160
Attn.: Mr Fadi Malki

Chapter(s) 62-761/762, F.A.C., Non-Compliance Letter
Pasco County – Regulated Storage Tanks
Fadi Malki, Inc
6927 Little Rd.
New Port Richey, FL 34655-1011
DEP Facility # 51-9103522

Dear Mr. Malki:

The Pasco County Department of Health is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in Pasco County. On 2/10/2011, a storage tank inspection (file review) was conducted of the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the file review, you may not be operating in compliance with the requirements of Chapter(s) 62-761/762, Florida Administrative Code (F.A.C.).

A Non-Compliance Letter (NCL) dated 12/1/10 was mailed to you along with a copy of the Inspection Report dated 11/30/10. You were to answer the 9 citations issued within 30 days of receipt of the NCL/Report-on or about January 3, 2011. To date, none of the Non-Compliance issues have been addressed. Please review the inspection report and reply to this office no later than February 28, 2011.

Your failure to respond **no later than February 28, 2011** will result in referral to the Florida Department of Environmental Protection (FDEP) and may result in further enforcement action.

Any noncompliance items must be corrected immediately. Please provide a written response to this office within the time frames in the report and provide documentation to show that the issues addressed in the enclosed report and in this letter have been resolved. Please include the facility identification number on all correspondence.

Please be aware that violations of Chapter(s) 62-761/762, F.A.C., may subject you to penalties of up to \$10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

If you have any questions please contact me at 813-558-5173x109.

Sincerely,
George J. Condoleon
Pasco County Environmental Health

cc: 6927 Little Rd., New Port Richey, FL 34655-1011

file



Pasco County Environmental Health – Land O' Lakes Office

David R. Johnson, M.D., M.S., M.H.A. • Director
• www.doh.state.fl.us/chdpasco





Charlie Crist
Governor

Dr. Ana M. Viamonte Ros, M.D., MPH.
State Surgeon General

Pasco County Health Department
4135 Land O' Lakes Blvd.
Land O' Lakes, FL 34639
813-558-5173x109

December 1, 2010

Fadi Malki, Inc.
6927 Little Rd
New Port Richey, FL 34655-1011
Attn.: Mr. Fadi Malki

Chapter(s) 62-761/762, F.A.C., Non-Compliance Letter
Pasco County – Regulated Storage Tanks
Fadi Malki, Inc.
6927 Little Rd
New Port Richey, FL 34655-1011
DEP Facility # 51- 9103522

Dear Mr. Malki:

The Pasco County Department of Health is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in Pasco County. On 11/29/2009, a storage tank Annual Compliance inspection was conducted at the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the inspection, you may not be operating in compliance with the requirements of Chapter(s) 62-761/762, Florida Administrative Code (F.A.C.).

Any noncompliance items must be corrected immediately. Please provide a written response to this office within the time frames in the report and provide documentation to show that the issues addressed in the enclosed report and in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of Chapter(s) 62-761/762, F.A.C., may subject you to penalties of up to \$10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

If you have any questions please contact me at 813-558-5173x109.

Sincerely,

George J. Condoleon
Pasco County Environmental Health

Enclosure



Pasco County Environmental Health – Land O' Lakes Office

David R. Johnson, M.D., M.S., M.H.A. • Director

• www.doh.state.fl.us/chd/pasco





Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Annual Compliance Site Inspection Report

Facility Information:

Facility ID: 9103522 County: PASCO Inspection Date: 11/29/2010
Facility Type: A -Retail Station
Facility Name: FADI MALKI INC # Of Inspected ASTs: 0
6927 LITTLE RD USTs: 3
NEW PORT RICHEY, FL 34655 Mineral Acid Tanks: 0
Latitude: 28° 15' 29.949"
Longitude: 82° 40' 28.9271"
LL Method: AGPS

Inspection Result:

Result : Major Out of Compliance
Description: Facility is Major Out of Compliance.

Financial Responsibility Over Due
Financial Responsibility: INSURANCE
Insurance Carrier: COMMERCE & INDUSTRY
Effective Date: 12/02/2009 Expiration Date: 07/16/2010

Signatures:

TKPSPH - PASCO COUNTY HEALTH DEPARTMENT

Storage Tank Program Office

(813) 558-5173

Storage Tank Program Office Phone Number

George John Condoleon

INSPECTOR NAME

INSPECTOR SIGNATURE

Mailed to: Faldi Malki

REPRESENTATIVE NAME

NO SIGNATURE

REPRESENTATIVE SIGNATURE

Facility ID: 9103522

System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
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Overdue Tests

Annual Operability Test			12/15/2009	11/11/2010	
Annual Inline Leak Detector Test			12/15/2009	11/11/2010	

Completed Tests

Annual Inline Leak Detector Test	01/03/2007	Passed	11/19/2008	03/14/2007	
Annual Inline Leak Detector Test	11/11/2009	Passed	12/15/2009	01/03/2008	
Annual Operability Test	11/11/2009	Passed	12/15/2009	01/03/2008	
Annual Operability Test	01/03/2007	Passed	11/19/2008	03/14/2007	

New Violations

Type: Violation
Significance: SNC-B
Rule: 62-761.400(3)(a)1.
Violation Text: No financial responsibility.
Explanation: The Certification of Financial Responsibility (CFR) and proof of insurance were not available.
Corrective Action: Within 30 days of receipt of this report, submit the proof of insurance (expired 7/16/10) and the CFR to this office.

Type: Violation
Significance: Minor
Rule: 62-761.600(1)(a)2.
Violation Text: Not installed, calibrated, operated, and maintained per manufacturer's specifications.
Explanation: The 2 regular (STP and piping sump) sensors do not appear on the "Liquid Status" tape.
Corrective Action: Within 30 days of receipt of this report, repair the Veeder Root and contact this office. Please have the tank sensors relabeled properly. (they are labeled as Blue, Silver, and Gold)

Type: Violation
Significance: Minor
Rule: 62-761.510(1)(b)3.
Violation Text: Fillboxes color not coded by 12/31/98.
Explanation: All of the fill caps are not labeled.
Corrective Action: Within 30 days of receipt of this report, properly label the fill cap lids and contact this office.

Type: Violation
Significance: Minor
Rule: 62-761.700(1)(c)3.
Violation Text: Release detection devices not tested annually.
Explanation: The last known testing of the mechanical line leak detectors and the Veeder Root monitoring system was on 11/11/09.
Corrective Action: Within 30 days of receipt of this report, schedule testing of the Veeder Root and the mechanical line leak detectors and contact this office with the results.

Type: Violation
Significance: Minor
Rule: 62-761.640(1)(c), 62-761.600(1)(b)
Violation Text: No release detection response level described in writing.
Explanation: The Release Detection Response Level (RDRL) was not available.
Corrective Action: Within 30 days of receipt of this report, submit the RDRL to this office.

Type: Violation
Significance: Minor
Rule: 62-761.710(2)(h), 62-761.710(2)(g), 62-761.710(2)(f), 62-761.710(2)(e), 62-761.710(2)(d), 62-761.710(2)(c), 62-761.710(2)(b), 62-761.710(2)(a)
Violation Text: Records requiring 2 year documentation period not kept by facility.
Explanation: The Release Detection Response Level (RDRL), the Certification of Financial Responsibility (CFR), proof of insurance and monthly release detection documentation were not available.
Corrective Action: Within 30 days of receipt of this report, submit the required documentation to this office.

Type: Violation
Significance: Minor
Rule: 62-761.400(2)(a)
Violation Text: Registration fees not paid.
Explanation: The 2010-2011 Registration fees have not been paid.
Corrective Action: Within 30 days of receipt of this report, pay the registration fees and display the 2010-2011 Placard; contact this office.

Type: Violation
Significance: Minor
Rule: 62-761.640(4)(a)4., 62-761.640(4)(a)3., 62-761.640(4)(a)2., 62-761.640(4)(a)1.
Violation Text: UST line leak detector cannot detect a 3.0 gph discharge; not tested annually.
Explanation: The last known testing of the mechanical line leak detectors was on 11/11/09.
Corrective Action: Within 30 days of receipt of this report, schedule testing of the mechanical line leak detectors and contact this office with the results.

Type: Violation
Significance: Minor
Rule: 62-761.700(1)(a)1.d., 62-761.700(1)(a)1.c., 62-761.700(1)(a)1.b., 62-761.700(1)(a)1.a.
Violation Text: Not repaired component which has or could cause a discharge or release.
Explanation: The #3/4 dispenser (placed out of service before the inspection) is leaking product; the leak appears to be above the meters.
Corrective Action: Within 30 days of receipt of this report, repair the dispenser and contact this office.

Inspection Comments

12/01/2010

This inspection was conducted on 11/29/10. This facility consists of 3-12,000 gallon (2 regular and 1 premium) double wall fiberglass clad steel underground storage tanks and 6 dispensers. Steve and Greg Phillips of Compliance Services were present during the inspection.

Release Detection Method- The Submersible Turbine Pump (STP) sumps, dispenser sumps, and tank interstitial spaces are monitored electronically (Veeder Root EQ-197,596). The spill buckets are monitored visually, and the dispenser sumps are also monitored visually. An operability test of the Veeder Root monitoring system and the mechanical line leak detectors is required annually.

Physical Inspection-The type of piping of the system is double wall fiberglass. The STP sumps (See NOTE-1) contained a small amount of water below the piping; mechanical line leak detectors and sensors were observed; the test boots were opened. The spill buckets contained a few inches of Product Contact Water (PCW); the spill buckets are contained within a sump. All of the fills (See NOTE-2) contained a co-axial drop tube with flapper. The dispenser sumps were dry (See NOTE-3); sensors were observed and the shear valves appeared to be secured. Except for the # 11 dispenser hose, (See NOTE-4) there was no apparent damage/ wear noted from the dispensing equipment. There were no Veeder Root alarms at the time of inspection. (See NOTE-5)

Documentation- The Release Detection Response Level (RDRL), the Certification of Financial Responsibility (CFR), proof of insurance and monthly release detection documentation were not available. (See NOTE-6) The Veeder Root "Alarm History Report" could not be accessed. The 2010-2011 Registration fees have not been paid. (See NOTE-7)

Testing- The last known testing of the mechanical line leak detectors and the Veeder Root monitoring system was on 11/11/09. (OVERDUE, See NOTE-8)

12/01/2010

NOTE

- 1) The southern most sump is a piping sump only. (The 2 regular tanks appear to be manifolded.)
- 2) All of the fill caps are not labeled. Within 30 days of receipt of this report, properly label the fill cap lids and contact this office.
- 3) The #3/4 dispenser (placed out of service before the inspection) is leaking product; the leak appears to be above the meters. Within 30 days of receipt of this report, repair the dispenser and contact this office.
- 4) The # 11 dispenser hose is extremely worn and needs to be replaced. Within 30 days of receipt of this report, replace the #11 dispenser hose and contact this office.
- 5) The 2 regular (STP and piping sump) sensors do not appear on the "Liquid Status" tape. Within 30 days of receipt of this report, repair the Veeder Root and contact this office. Please have the tank

Facility ID: 9103522

Inspection Comments

- sensors relabeled properly. (they are labeled as Blue, Silver, and Gold)
- 6) Within 30 days of receipt of this report, submit the required documentation to this office. (Compliance Services was having technical problems with the release detection documentation)
- 7) Within 30 days of receipt of this report, pay the registration fees and display the 2010-2011 Placard; contact this office.
- 8) Within 30 days of receipt of this report, schedule testing of the Veeder Root and the mechanical line leak detectors and contact this office with the results.

Inspection Photos1

Added Date 11/30/2010

Fill caps not labeled.



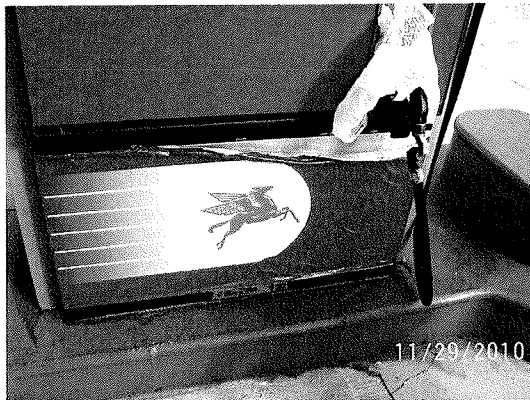
Added Date 11/30/2010

Worn #11 Hose.



Added Date 11/30/2010

#3/4 dispenser. (Note damaged decal from product leak.)





Charlie Crist
Governor

Dr. Ana M. Viamonte Ros, M.D., MPH.
State Surgeon General

Pasco County Health Department
4135 Land O' Lakes Blvd.
Land O' Lakes, FL 34639
813-558-5173x109

12/16/09

Fadi Malki, Inc.
6927 Little Rd
New Port Richey, FL 34655-1011

Chapter(s) 62-761/762, F.A.C., Non-Compliance Letter
Pasco County – Regulated Storage Tanks
Fadi Malki, Inc.
6927 Little Rd
New Port Richey, FL 34655-1011
DEP Facility # 51- 9103522

Dear Mr. Malki:

The Pasco County Department of Health is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in Pasco County. On 12/10/2009, a storage tank Annual Compliance inspection was conducted at the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the inspection, you may not be operating in compliance with the requirements of Chapter(s) 62-761/762, Florida Administrative Code (F.A.C.).

Any noncompliance items must be corrected immediately. Please provide a written response to this office within the time frames in the report and provide documentation to show that the issues addressed in the enclosed report and in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of Chapter(s) 62-761/762, F.A.C., may subject you to penalties of up to \$10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

If you have any questions please contact me at 813-558-5173x109.

Sincerely,

George J. Condoleon
Pasco County Environmental Health

Enclosure



Pasco County Environmental Health – Land O' Lakes Office

David R. Johnson, M.D., M.S., M.H.A. • Director

• www.doh.state.fl.us/chdpasco





Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Facility Information:

Facility ID: 9103522 County: PASCO Inspection Date: 12/10/2009
Facility Type: A -Retail Station
Facility Name: FADI MALKI INC # Of Inspected ASTs: 0
6927 LITTLE RD USTs: 3
NEW PORT RICHEY, FL 34655 Mineral Acid Tanks: 0
Latitude: 28° 15' 31.0"
Longitude: 82° 40' 28.0"
LL Method: AGPS

Inspection Result:

Result : Minor Out of Compliance
Description: Facility is Minor Out of Compliance.

Financial Responsibility

Financial Responsibility: INSURANCE
Insurance Carrier: COMMERCE & INDUSTRY
Effective Date: 12/02/2009 Expiration Date: 07/16/2010

Signatures:

TKSPH - PASCO COUNTY HEALTH
DEPARTMENT

Storage Tank Program Office

(813) 558-5173

Storage Tank Program Office Phone Number

Mailed to Faldi Malki

REPRESENTATIVE NAME

NO SIGNATURE

REPRESENTATIVE SIGNATURE

System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
------	----------------	---------	----------	---------------	---------

To be completed

Annual Inline Leak Detector Test			12/15/2009	11/11/2010	
Annual Operability Test			12/15/2009	11/11/2010	

Completed Tests

Annual Inline Leak Detector Test	11/11/2009	Passed	12/15/2009	01/03/2008	
Annual Operability Test	01/03/2007	Passed	11/19/2008	03/14/2007	
Annual Operability Test	11/11/2009	Passed	12/15/2009	01/03/2008	
Annual Inline Leak Detector Test	01/03/2007	Passed	11/19/2008	03/14/2007	

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
-----------------	-------------	-----------	---------	-------------------------

Two Years	Electronic Release Detection Equip. Monthly Checks	11/12/2009	12/10/2009	
Two Years	Monthly Maint. Visual Examinations and Results	11/14/0009	12/12/0009	
Life Time	Written Release Detection Response Level Info	12/10/2009	12/10/2009	
Two Years	Copy of All Test Data Results	11/18/2008	12/12/0009	
Two Years	Certificate of Financial Responsibility	12/10/2009	07/16/2009	

Outstanding Violations:

Type: Violation
 Significance Name: Minor
 Rule: 62-761.700(1)(c)1.
 Violation Text: Spill containment, dispenser liners and piping sumps accessible; water and regulated substances not removed.
 Explanation: The mid-grade fill sump contains water above the sensor level; the mid-grade fill inner lid could not be accessed.
 Corrective Action: Within 14 days of receipt of this letter, properly remove the PCW in the mid-grade sump, (the PCW should be removed from all the fill sumps) and repair/replace the mid-grade fill inner lid so it can be accessed; contact this office when completed. It is recommended that all of the fill outer lids be replaced to prevent water from entering the fill sumps.

Type: Violation
Significance Name: Minor
Rule: 62-761.700(1)(c)1.
Violation Text: Spill containment, dispenser liners and piping sumps accessible; water and regulated substances not removed.
Explanation: The mid-grade fill sump contains water above the sensor level; the mid-grade fill inner lid could not be accessed.
Corrective Action: Within 14 days of receipt of this letter, properly remove the PCW in the mid-grade sump, (the PCW should be removed from all the fill sumps) and repair/replace the mid-grade fill inner lid so it can be accessed; contact this office when completed. It is recommended that all of the fill outer lids be replaced to prevent water from entering the fill sumps.

Inspection Comments

12/15/2009

Remark-This facility was referred for enforcement in December, 2008. The property/business was sold on or about 12/4/09 to Mr. Faldi Malki. There were no records available from the previous owner (November 2008, December, 2009). Mr. Malki has hired Danny Phillips to conduct inspections starting in November, 2009 and testing was also conducted in November, 2009- before Mr. Malki purchased the property/business.

This inspection was conducted on 12/10/09. This facility consists of 3-12,000 gallon double wall fiberglass clad steel underground storage tanks and 6 dispensers.

Release Detection Method- The Submersible Turbine Pump (STP) sumps, dispenser and spill bucket sumps, and tank interstitial spaces are monitored electronically (Veeder Root EQ-197,596). The dispenser sumps are also monitored visually. An operability test of the Veeder Root monitoring system and the mechanical line leak detectors is required annually.

Physical Inspection-The type of piping of the system is double wall fiberglass. The STP sumps were dry at the time of inspection; mechanical line leak detectors and sensors were observed; the test boots were opened. The spill buckets contained a few inches of Product Contact Water (PCW); the spill buckets are contained within a sump with a sensor. (See NOTE-1) All of the spill bucket sumps contained some PCW; the mid-grade PCW level was above the sensor level and was in alarm. All of the fills (except for the mid-grade, see NOTE-1) contained a co-axial drop tube with flapper. The dispenser sumps were dry; sensors were observed and the shear valves appeared to be secured. There was no apparent damage/ wear noted from the dispensing equipment. Except for the mid-grade fill sump, there were no Veeder Root alarms at the time of inspection.

Documentation- The Release Detection Response Level (RDRL), the Certification of Financial Responsibility (CFR), and proof of insurance were available. Release detection documentation was available from 11/12/09 to 12/10/09; the documentation appeared to coincide with physical inspection observations and was conducted within 35 days. (See remark above) The 2009-2010 Registration fees were not paid and the 2009-2010 Placard has not been issued. (See NOTE-2)

NOTE

1) The inner spill bucket lids are severely corroded; the mid-grade spill bucket lid could not be accessed due to the corrosion. The outer lids, especially the mid-grade, are damaged and need to be replaced.

2) The owner claimed that a registration form was submitted to Tallahassee the previous week. The tanks must be registered and the Placard must be posted no later than January 4th, 2010.

Facility ID: 9103522

Inspection Comments

Testing- The mechanical line leak detectors and the Veeder Root monitoring system were tested and passed by Petroleum Compliance Solutions on 11/11/09.

Inspection Photos

First Port Energy

51/9103522

2/23/2005 Land purchased by Little Land Incorporated (inactive as of 9/14/07)
10/10/06 Operator changes to First Port Energy, Inc. per placard
11/20/06 Annual & NCL
- major out of compliance: FR and RD
- Laurel gave extension until 3/31/07 to resolve most violations
3/5/07 2nd NCL
3/29/07 Last open violation closed
11/15/07 Annual & NCL
- spill buckets all have PCW
- registration fees not paid
- not cited, but reminder given: No INFs for regular & premium sumps in alarm since 3/3/07; premium since 7/31/07
- reminder given of annual
1/19/08 Annual & NCL
- FR expired 2/28/08
- annual due 1/3/08
- No RD (all electronic) after 12/07
- No interstitial monitoring after 12/07
- no INF/investigation for alarms
- fill box covers not labeled
12/30/08 Referral
3/19/09 WL issued
4/10/09 Last chance letter issued - must contact me within 14 days
5/7/09 Case Report to OGC
5/22/09 Kellie assigned
6/17/09 Letter to RP from OGC
8/14/09 Email from OGC - Property owned by BLX Capital Real Estate, LLC as of 6/30/09
8/17/09 Letter to new owner
10/9/09 CR & email with new owner
10/12/09 Emails to new owner
11/3/09 Property purchased by Fadi Malki, Inc.
12/10/09 Annual – only minor remain
12/14/09 CR- OGC; case can be closed

Memorandum

Florida Department of Environmental Protection

ENFORCEMENT/COMPLIANCE COVER MEMO

TO: _____ File
FROM/THROUGH: [Signatures] Bill Kutash, Waste Program Administrator
 Laurel Culbreth, Environmental Manager
 Alison Meetze, Environmental Specialist

DATE: December 17, 2009

FILE NAME: FIRST PORT ENERGY FDEP ID# 51/9103522
PROGRAM: SWD/WASTE MANAGEMENT/STORAGE TANKS COUNTY: PASCO
WL# OGC #

TYPE OF DOCUMENT:

- Final, Consent Order, Case Closure, etc.

CASE SUMMARY:

This facility was referred for enforcement on December 30, 2008 by the Pasco County Health Department for failure to perform monthly release detection and failure to maintain Financial Responsibility. Warning Letter #09-029-TK51SWD was issued on March 19, 2009 and a last chance letter was issued on April 10, 2009. A Case Report was sent to OGC on May 7, 2009.
The property, which has a claim of fraudulent deed, was foreclosed upon on June 30, 2009 and the property was sold again on November 3, 2009. The current property owner is in compliance except for one minor violation requiring the removal of liquid from a sump.
After discussion with OGC, the Southwest District is closing this enforcement case.

ATTACHMENT(S): OGC MEMO

Memorandum

**Florida Department of
Environmental Protection**

SOUTHWEST DISTRICT

TO: Aliki Moncrief, Office of General Counsel

THROUGH: *W* Deborah A. Getzoff, Director of District Management
W William Kutash, Program Administrator, Division of Waste Management
LC Laurel Culbreth, Environmental Manager

FROM: *AM* Alison Meetze, Environmental Specialist III

DATE: December 17, 2009

SUBJECT: First Port Energy, Inc.

FDEP ID#51/9103522

OGC Case No 09-2797

Case Closure Request

This facility was referred for enforcement on December 30, 2008 by the Pasco County Health Department for failure to perform monthly release detection and failure to maintain Financial Responsibility. Warning Letter #09-029-TK51SWD was issued on March 19, 2009 and a last chance letter was issued on April 10, 2009. A Case Report was sent to OGC on May 7, 2009.

The property, which has a claim of fraudulent deed, was foreclosed upon on June 30, 2009 and the property was sold again on November 3, 2009. The current property owner is in compliance except for one minor violation requiring the removal of liquid from a sump.

After discussion with OGC, the Southwest District is closing this enforcement case.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date: 12/14/09 Subject: Former First Port Energy
Time: _____ County: Pasco
Ms. Kellie Scott Telephone No.: 850-245-2220
Representing: OGC

Phoned Me Was Called Scheduled Teleconference Meeting Unscheduled Meeting

Summary of Conversation: Discussed enforcement case. As the previous owner has been foreclosed on and there was a claim of fraudulent deed, we can close the case now that the current owner is in compliance except for minor maintenance issues.

Signature: Alison Meetze

Title: Environmental Specialist III

cl
12/14/09



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

August 17, 2009

CERTIFIED MAIL 7008 3230 0002 7195 8094
RETURN RECEIPT REQUESTED

BLX Capital Real Estate, LLC
C/o James T. Werther, special service officer
One Independence Point
#102
Greenville, SC 29615

CERTIFIED MAIL 7008 3230 0002 7195 8100
RETURN RECEIPT REQUESTED
BLX Capital Real Estate, LLC
United Corporate Services, Inc., Registered Agent
874 Walker Rd
Suite C
Dover, DE 19904

**Subject: BLX Capital Real Estate, LLC Property
6927 Little Road
New Port Richey, Pasco County, Florida
FDEP ID# 51/9103522**

Dear Mr. Werther:

The Pasco County Health Department (County) is authorized, by contract with the Department of Environmental Protection (Department), to administer the Compliance Inspection Verification Program for facilities in Pasco County regulated under Chapter 62-761 of the Florida Administrative Code (F.A.C.). The compliance inspection conducted by the County on November 19, 2008 of the above referenced facility indicates that violations of Florida Statutes and Rules may exist at this facility. The inspection report is attached.

Please be advised that as property owner, correction of the violations of Chapter 62-761, F.A.C. is your responsibility. The attached Storage Tank Registration Form must be completed and submitted to the Department and the following corrective actions must be taken or the USTs must be properly placed out-of-service in accordance with 62-761.800(1), F.A.C. within 90 days of receipt of this letter:

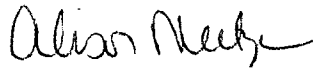
1. Obtain Financial Responsibility for the Underground Storage Tank systems (USTs).



2. Begin performing monthly Release Detection.
3. Perform annual operability tests of the Line Leak Detectors, Veeder-Root monitoring system and all associated liquid sensors.
4. Label the fill box covers.

Please be aware that failure to return the facility to compliance within 90 days of receipt of this letter will result in the Department proceeding with formal agency action to enforce the provisions of Chapter 62-761, F.A.C. Should you have any questions, please contact me at the Department's Storage Tanks Program at (813) 632-7600, extension 493 or via email at Alison.Meetze@dep.state.fl.us.

Sincerely,



Alison Meetze
Environmental Specialist III
Storage Tanks Program
Division of Waste Management

Enclosures

cc: George Condoleon, Pasco County Health Department
Kellie Scott, FDEP / Office of General Counsel, *via email*



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

CERTIFIED MAIL 7008 0150 0003 4894 0810
RETURN RECEIPT REQUESTED

First Port Energy, Inc.
Arooj Ahmed, Registered Agent
990 Burlwood Ct.
Longwood, FL 32750

CERTIFIED MAIL 7008 0150 0003 4894 0735
RETURN RECEIPT REQUESTED

James Thomas
2238 Golf Manor Blvd.
Valrico, FL 33594

**Subject: Warning Letter # 09-029-TK51SWD
First Port Energy
6927 Little Road
New Port Richey, Pasco County, Florida
FDEP ID# 51/9103522**

Dear Mr. Ahmed and Mr. Thomas:

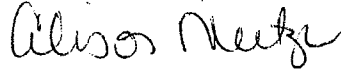
The Pasco County Health Department (County) is authorized, by contract with the Department of Environmental Protection (Department), to administer the Compliance Inspection Verification Program for facilities in Pasco County regulated under Chapter 62-761 of the Florida Administrative Code (F.A.C.). The compliance inspection conducted by the County on November 19, 2008 of the above referenced facility indicates that violations of Florida Statutes and Rules may exist at this facility. With respect to these violations, the Department issued Warning Letter #09-029-TK51SWD on March 19, 2009, which included the requirement to contact me by April 3, 2009. To date, contact has not been made.

To discuss settlement of this matter, contact me at the Department's Storage Tanks Program at (813) 632-7600, extension 493 or via email at Alison.Meetze@dept.state.fl.us within 14 days. Please be aware that failure to contact me within 14 days of receipt of this letter will result in the

not check
letter
4/10/09

Department proceeding with formal agency action to enforce the provisions of Chapter 62-761,
F.A.C.

Sincerely,



Alison Meetze
Environmental Specialist III
Storage Tanks Program
Division of Waste Management

cc: Danny Harris, Pasco County Health Department
Joseph Chackochan, 9247 Little Road, New Port Richey, FL 34654



Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Annual Site Inspection Report

Facility Information

Facility ID: 9103522 County: PASCO Inspection Date: 11/18/2008
Facility Name: FIRST PORT ENERGY Facility Type: A - Retail Station
6927 LITTLE RD # Of Inspected ASTs: 0
NEW PORT RICHEY, FL 34655-1011 USTs: 3
Latitude: 28° 15' 29.949" Mineral Acid Tanks: 0
Longitude: 82° 40' 28.9271"
L/L Method: DGPS

Inspection Result

Result : Major Out of Compliance

Description: Facility is out of compliance

A re-inspection will be scheduled on or after 90 days to verify correction of the non-compliance items noted.

Financial Responsibility **Over Due**

Financial Responsibility: INSURANCE

Insurance Carrier: COMMERCE & INDUSTRY

Effective Date: 02/28/2007

Expiration Date: 02/28/2008

Signatures

TKPSPH - PASCO COUNTY HEALTH DEPARTMENT

Storage Tank Program Office

(813) 558-5173

Storage Tank Program Office Phone Number

GEORGE CONDOLEON

Inspector Name

Satvic

Facility Representative Name

Inspector Signature

No signature available

Facility Representative Signature

System Tests

Type	Date Completed	Results	Reviewed	Next Due Date
------	----------------	---------	----------	---------------

Completed Tests

Annual Inline Leak Detector Test	01/03/2007	Passed	11/19/2008	03/14/2007
Annual Operability Test	01/03/2007	Passed	11/19/2008	03/14/2007

Overdue Tests

Annual Inline Leak Detector Test			11/19/2008	01/03/2008
Annual Operability Test			11/19/2008	01/03/2008

Reviewed Records

Record Category	Record Type	From Date	To Date
Two Years	Certificate of Financial Responsibility	11/13/2007	11/18/2008
Two Years	Repair, Operation and Maintenance Records	11/13/2007	11/18/2008
Two Years	Electronic Release Detection Equip. Monthly Checks	11/13/2007	11/18/2008
Two Years	Copy of All Test Data Results	11/13/2007	11/18/2008
Life Time	Written Release Detection Response Level Info	11/18/2008	11/18/2008

New Violations

Significance Name: SNC-B
 Rule Number(s): 62-761.400(3)(a)1.
 Violation Text: No financial responsibility.
 Explanation: The Certification of Financial Responsibility (CFR) and proof of insurance were not available.
 Corrective Action: Within 30 days of receipt of this report, submit the required documentation to this office.

Significance Name: Minor
 Rule Number(s): 62-761.700(1)(c)3.
 Violation Text: Release detection devices not tested annually.
 Explanation: The last known test of the mechanical line leak detectors and Veeder Root monitor was on 1/3/07.
 Corrective Action: Within 30 days of receipt of this report, conduct testing and submit the results to this office.

Significance Name: Minor
 Rule Number(s): 62-761.710(2)(a), 62-761.710(2)(b), 62-761.710(2)(c), 62-761.710(2)(d), 62-761.710(2)(e), 62-761.710(2)(f), 62-761.710(2)(g), 62-761.710(2)(h)
 Violation Text: Records requiring 2 year documentation period not kept by facility.
 Explanation: The Certification of Financial Responsibility (CFR), proof of insurance, testing, and release detection documentation were not available. The Alarm History Report indicated the following fuel alarms: L4 Silver Interstitial 5/1/08; L5 Silver Fill 6/15/08; L8 Gold Fill 4/6/08. There was no documentation showing how/when these alarms were answered
 Corrective Action: Within 30 days of receipt of this letter, submit the required documentation to this office.

Significance Name: Minor
Rule Number(s): 62-761.510(1)(b)3.
Violation Text: Fillboxes color not coded by 12/31/98.
Explanation: The fill box labeling is faded.
Corrective Action: Within 30 days of receipt of this report, correctly label the fill port covers and contact this office.

Significance Name: SNC-B
Rule Number(s): 62-761.600(1)(d)
Violation Text: Release detection not performed at least once a month.
Explanation: Release detection records (liquid status tapes) were not available.
Corrective Action: Within 30 days of receipt of this report submit Veeder Root tapes from 12/07 to present.

Significance Name: Minor
Rule Number(s): 62-761.600(1)(e)
Violation Text: Continuous electronic leak detection not inspected monthly.
Explanation: Veeder Root liquid status tapes were not available.
Corrective Action: Within 30 days of receipt of this report submit Veeder Root tapes from 12/07 to present.

Significance Name: Minor
Rule Number(s): 62-761.640(4)(a)1., 62-761.640(4)(a)2., 62-761.640(4)(a)3., 62-761.640(4)(a)4.
Violation Text: UST line leak detector cannot detect a 3.0 gph discharge; not tested annually.
Explanation: The last known test of the mechanical line leak detectors was on 1/3/07.
Corrective Action: Within 30 days of receipt of this report, conduct testing and submit the results to this office.

Inspection Comments

11/19/2008 Release Detection Method- The facility is also monitored electronically (Veeder Root EQ-197,596) Submersible Turbine Pump (STP), dispenser and spill bucket sumps, tank interstitial). An operability test of the Veeder Root monitoring system and the mechanical line leak detectors is required annually.

Documentation- The Release Detection Response Level (RDRL) and the 2008-2009 Placard were available. The Certification of Financial Responsibility (CFR), proof of insurance, and release detection documentation (the facility is monitored electronically) were not available. The Alarm History Report indicated the following fuel alarms: L4 Silver Interstitial 5/1/08; L5 Silver Fill 6/15/08; L8 Gold Fill 4/6/08. There was no documentation showing how/when these alarms were answered. (The facility did show that PCW was removed on 10/24/08.)

Physical Inspection-The type of piping of the system is double wall fiberglass. The STP sumps were dry at the time of inspection; mechanical line leak detectors and sensors were observed; the test boots were opened. The spill buckets were dry; they are contained within a sump with a sensor. All of the spill bucket sumps contained some water below the sensor level. All of the fills contained a co-axial drop tube with flapper. The fill box labeling is faded. The dispenser sumps were dry; sensors were observed and the shear valves appeared to be secured. There was no apparent damage/ wear noted from the dispensing equipment There were no Veeder Root alarms at the time of inspection.

Testing- There was no testing documentation for 2008. The mechanical line leak detectors and the Veeder Root were last tested and passed by JMP Solutions on 1/3/07.



Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Annual Site Inspection Report

Facility Information

Facility ID: 9103522 County: PASCO Inspection Date: 11/13/2007
Facility Name: FIRST PORT ENERGY Facility Type: A - Retail Station
6927 LITTLE RD # Of Inspected ASTs: 0
NEW PORT RICHEY, FL 34655-1011 USTs: 3
Latitude: 28° 15' 29.949" Mineral Acid Tanks: 0
Longitude: 82° 40' 28.9271"
L/L Method: DGPS

Inspection Result

Result : Minor Out of Compliance
Description: Facility is out of compliance

A re-inspection will be scheduled on or after 90 days to verify correction of the non-compliance items noted.

Financial Responsibility

Financial Responsibility: INSURANCE
Insurance Carrier: COMMERCE & INDUSTRY
Effective Date: 02/28/2007 Expiration Date: 02/28/2008

Signatures

TKPSPH - PASCO COUNTY HEALTH DEPARTMENT

Storage Tank Program Office

GEORGE CONDOLEON

Inspector Name

Inspector Signature

(813) 558-5173

Storage Tank Program Office Phone Number

Arooj Ahmed

Facility Representative Name

No signature available

Facility Representative Signature

System Tests

Test Name	Due Date	Completed Date	Result
-----------	----------	----------------	--------

Completed Tests

Annual Operability Test	03/14/2007	03/14/2006	Passed
Annual Inline Leak Detector Test	03/14/2007	03/14/2006	Passed
Annual Inline Leak Detector Test	01/03/2008	01/03/2007	Passed
Annual Operability Test	01/03/2008	01/03/2007	Passed

Reviewed Records

Record Category	Record Type	From Date	To Date
Two Years	Monthly Maint. Visual Examinations and Results	11/17/2006	11/13/2007
Two Years	Certificate of Financial Responsibility	11/17/2006	11/13/2007
Two Years	Electronic Release Detection Equip. Monthly Checks	11/17/2006	11/13/2007
Life Time	Written Release Detection Response Level Info	11/17/2006	11/13/2007
Two Years	Certificate of Financial Responsibility	11/17/2006	11/13/2007
Two Years	Repair, Operation and Maintenance Records	11/17/2006	11/13/2007
Two Years	Copy of All Test Data Results	11/17/2006	11/13/2007
Two Years	Copy of All Test Data Results	11/17/2006	11/13/2007

New Violations

Significance Name: Minor
 Rule Number(s): 62-761.700(1)(c)1.
 Violation Text: Spill containment, dispenser liners and piping sumps accessible; water and regulated substances not removed.
 Explanation: All of the spill bucket sumps contained Product Contact Water (PCW).
 Corrective Action: Within 14 days of receipt of this letter, remove and properly dispose of the PCW, and contact this office.

Significance Name: Minor
 Rule Number(s): 62-761.400(2)(a)
 Violation Text: Registration fees not paid.
 Explanation: It appears that the 2007-2008 registration fees have not been paid.
 Corrective Action: Within 14 days of receipt of this report, pay fees and contact this office.

Inspection Comments

11/15/2007 Release Detection Method- The facility is also monitored electronically (Veeder Root EQ-197,596) Submersible Turbine Pump (STP), dispenser and spill bucket sumps, tank interstitial). An operability test of the Veeder Root monitoring system and the mechanical line leak detectors is required annually.

Documentation Available- The Release Detection Response Level form (RDRL), the Certificate of Financial Responsibility (CFR), proof of insurance, and monthly inspections tapes from 2/21/07 thru 11/13/07 were available. There were two periods that exceeded the 35 day time limit; there was no tape for April, and the period between 6/4/07 and 7/31/07. The 2007-2008 Placard (fees not paid) was not available. The Alarm History Report indicated the regular and premium spill bucket sumps were in alarm starting March 3, 2007 and the mid-grade on July 31, 2007. (See REMARKS/WARNINGS)

Physical Inspection-The type of piping of the system is double wall fiberglass. The STP sumps were dry at the time of inspection; mechanical line leak detectors and sensors were observed; the test boots were opened. The spill buckets were dry; they are contained within a sump with a sensor. All of the spill bucket sumps contained Product Contact Water (PCW). All of the fills contained a co-axial drop tube with flapper. The fill box labeling is faded, and the premium spill bucket sump lid is severely damaged. The dispenser sumps were dry; sensors were observed and the shear valves appeared to be secured. There were no interstitial Veeder Root alarms.

Testing- The mechanical line leak detectors and the Veeder Root were tested and passed by JMP Solutions (Cert. # A20280) on

Inspection Comments

1/3/07.

Recommendation- Replace the premium spill bucket sump lid, and re-label all fill ports.

REMARKS/WARNINGS- ALL L SENSOR VEEDER ROOT ALARMS MUST BE ANSWERED AND SHOULD NOT BE IGNORED. IF IT IS APPARENT THAT THIS IS THE CASE AT THE NEXT COMPLIANT INSPECTION, THIS FACILITY WILL BE REFERRED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR ENFORCEMENT ACTION. A

11/15/2007 Reminder- The annual testing of the mechanical line leak detectors and the Veeder Root will be due on 1/3/08.

This facility may not be operating in compliance with FAC Chapter(s) 62-761/762, standards. Any noncompliance items should be corrected immediately. Please provide a written response to this office within 30 calendar days upon receipt of this letter and provide documentation to show that the issues addressed in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of FAC Chapter(s) 62-761/762 may subject you to penalties of up to \$10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

NOTE

The non-compliance letter was sent via certified mail. See form #4.

If you have any questions you may contact me at the letterhead address or telephone number.

Sincerely,

GEORGE CONDOLEON

Storage Tank Compliance Inspector

November 20, 2006

Account owner:
AROOJ AHMED
6927 LITTLE RD
NEW PORT RICHEY, FL 34659-

Tank owner:
AROOJ AHMED
6927 LITTLE RD
NEW PORT RICHEY, FL 34659-

Chapter(s) 62-761/762, FAC Non-Compliance Letter
FIRST PORT ENERGY
6927 LITTLE RD
NEW PORT RICHEY, FL34655-1011
DEP Facility # 9103522
PASCO County - Regulated Storage Tanks

Dear AROOJ AHMED

The PASCO COUNTY HEALTH DEPARTMENT (County) is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in PASCO County. On 2006-11-20 an inspection was conducted at the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the inspection, you may be in violation of the rules cited below. The following noncompliance items require your attention:

New Violations found during Site Inspection Activity

Significance: Minor

Explanation: The northern and southern most tanks were not color coded at the fill ports.

Violation Text: Fillboxes color not coded by 12/31/98.

Rule: 62-761.510(1)(b)3.

Fillboxes shall be color coded in accordance with paragraph 62-761.500(5)(a), F.A.C.

Corrective Action: Correctly color code the fill port within 30 days of receipt of this letter.

Significance: Minor

Explanation: There were no veeder root liquid status tapes available for inspection.

Violation Text: Continuous electronic leak detection not inspected monthly.

Rule: 62-761.600(1)(e)

At least once a month, but not exceeding 35 days, any storage tank and component of a storage tank that can be inspected visually shall be visually inspected in accordance with paragraph 62-761.640(2)(e), F.A.C. A visual inspection is not required for any system component that has a continuous or monthly electronic release detection sensor. Continuous electronic leak detection devices shall be inspected for proper operation on a monthly basis. Inspection may consist of visual observation or remote verification of proper operation.

Corrective Action: Please submit veeder root tapes from 12/05 to 11/06 if available, or start pulling liquid status tapes monthly (not to exceed 35 days) so a re-inspection can be scheduled.

Significance: Minor

Explanation: The dispenser sumps could not be inspected; the facility and the inspector did not have the proper keys for access.

Violation Text: Spill containment, dispenser liners and piping sumps accessible; water and regulated substances not removed.

Rule: 62-761.700(1)(c)1.

Spill containment devices, dispenser liners, and piping sumps shall be maintained to provide access for monthly examination and water removal as necessary. Water collected in spill containment devices, or in piping sumps and dispenser liners that is above the opening of the integral piping connection, or any regulated substances collected in these storage tank system components shall be removed and be either reused or properly disposed of.

Corrective Action: Within 30 days of receipt of this report, have keys available so a re-inspection can be scheduled.

Significance: SNC-B

Explanation: There was no proof of insurance available during the inspection.

Violation Text: No financial responsibility.

Rule: 62-761.400(3)(a)1.

The owner or operator of a facility, or individual tanks, if of different ownership, shall demonstrate financial responsibility to the Department. If the owner and operator of a tank are separate persons, only one person is required to demonstrate financial responsibility. However, both persons are liable in event of noncompliance. Financial responsibility is only required for tanks containing petroleum or petroleum products. Financial responsibility is the ability to pay for corrective action and third-party liability resulting from a discharge at the facility.

Corrective Action: Provide proof of insurance documentation within 30 days of receipt of this report.

Significance: SNC-B

Explanation: The apparent release detection for the tanks is interstitial monitoring via sensors; there were no liquid status tapes available during the inspection.

Violation Text: No interstitial monitoring for secondary containment.

Rule: 62-761.600(1)(h)

Any component of a storage tank system with secondary containment shall have an interstitial monitoring method meeting the requirements of paragraph 62-761.640(3)(a), F.A.C.

Corrective Action: Provide liquid status tapes from 12/05 to 11/06 if available, or pull liquid status tapes on a monthly basis (not to exceed 35 days) so a re-inspection can be scheduled.

Significance: Minor

Explanation: Monthly visual inspections, Veeder root liquid status tapes, Release detection Response level (R D R L), Certification of Financial responsibility (C F R), and proof of insurance were not available during the inspection.

Violation Text: Records requiring 2 year documentation period not kept by facility.

Rule: 62-761.710(2)(a)

Measurements and reconciliations of inventory, as applicable;

Rule: 62-761.710(2)(b)

Repair, operation, and maintenance records;

Rule: 62-761.710(2)(c)

Release detection results, including electronic test results, regardless of the frequency, and monthly visual inspections performed in accordance with paragraph 62-761.640(2)(e), F.A.C. The presence of a regulated substance's odor, sheen, or free product shall be recorded for each sampling event;

Corrective Action: Please submit the required documentation (if available) within 30 days of receipt of this letter.

Rule: 62-761.710(2)(d)

Release detection response level descriptions;

Rule: 62-761.710(2)(e)

A copy of all test data and results gathered during tightness tests, pressure tests, and breach of integrity tests, and the name and type of the test approved under Rule 62-761.850, F.A.C.;

Rule: 62-761.710(2)(f)

Certification of Financial Responsibility on Form 62-761.900(3);

Rule: 62-761.710(2)(g)

Records of types of fuels stored per tank; and

Rule: 62-761.710(2)(h)

The repair or replacement of gaskets, valve packings, valves, flanges, and connection/disconnection fittings for bulk product piping if the repair or replacement is performed in response to a discharge or loss of regulated substances.

Significance: SNC-B

Explanation: There was no monthly documentation showing that the storage tank system is inspected.

Violation Text: Release detection not performed at least once a month.

Rule: 62-761.600(1)(d)

Except as otherwise specified in Rules 62-761.600-.640, F.A.C., the release detection method or combination of methods used at a facility shall be performed at least once a month, but not exceeding 35 days, to determine if a release from the storage tank system has occurred.

Corrective Action: Submit monthly visual inspection results from 12/05 to 11/06, or start to inspect the system on a monthly basis (not to exceed 35 days) and record the results for a re-inspection.

Significance: Minor

Explanation: There was no release detection response level (R D R L) available during the inspection.

Violation Text: No release detection response level described in writing.

Rule: 62-761.600(1)(b)

A release detection response level shall be described in writing for each method or combination of methods of release detection used for a storage tank system.

Rule: 62-761.640(1)(c)

Have a release detection response level described in writing for each method or combination of methods.

Corrective Action: Please provide a R D R L within 30 days of receipt of this report.

Outstanding Violations

Significance: Minor

Explanation: NOT REPAIRED COMPONENT WHICH HAS OR COULD CAUSE A DISCHARGE

Violation Text: Not repaired component which has or could cause a discharge or release.

Rule: 62-761.700(1)(a)1.a.

Discharged or contributed to the discharge of a regulated substance;

Rule: 62-761.700(1)(a)1.b.

A release of regulated substances into secondary containment;

Corrective Action: MIGRATED VIOLATION - NO CORRECTIVE ACTION AVAILABLE

Rule: 62-761.700(1)(a)1.c.

The presence of groundwater in the interstice of a double-walled UST or pipe; or

Rule: 62-761.700(1)(a)1.d.

An operational or structural problem that could potentially result in a discharge or release.

This facility may not be operating in compliance with FAC Chapter(s) 62-761/762, standards. Any noncompliance items should be corrected immediately. Please provide a written response to this office within 30 calendar days upon receipt of this letter and provide documentation to show that the issues addressed in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of FAC Chapter(s) 62-761/762 may subject you to penalties of up to \$10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

NOTE

The F I R ST generated was not mailed. See attachment form #4.

If you have any questions you may contact me at the letterhead address or telephone number.

Sincerely,


GEORGE CONDOLEON

Storage Tank Compliance Inspector

Memorandum

**Florida Department of
Environmental Protection**

TO: Tom Conrardy
Bureau of Petroleum Storage Systems
Petroleum Cleanup Section 3
Mail Station 4530

FROM: Leslie Pedigo 
Southwest District

DATE: February 14, 2011

SUBJECT: Quarter 6 Post Active Remedial Monitoring Report
PARM Modification Request
7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607

Enclosed please find the above referenced report for your review and comments. This document has been submitted for scanning into OCULUS. Since this site is currently not eligible for one of the cleanup programs, please send your comments to me.

Thanks for your assistance!

LP

Enclosure



February 10, 2011

Ms. Leslie Pedigo
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB 11 2011
SOUTHWEST DISTRICT
TAMPA

**Re: Year 3, Quarter 2 Post-Active Remedial Monitoring Report
7-Eleven Store No. 32351
6926 Little Road
New Port Richey, Florida
FDEP Facility ID No.: 519800607, Non-Program Site
Project No. 138354-32351000**

Dear Ms. Pedigo:

Shaw Environmental, Inc. (Shaw), on behalf of 7-Eleven, Inc., has completed the year 3, quarter 2 post-active remedial monitoring (PARM) event for the referenced site in accordance with the Florida Department of Environmental Protection's (FDEP) PARM Plan Approval Order dated October 23, 2009, and modifications approved with the Year 2, Quarter 3 and Year 3, Quarter 1 PARM Reports. Copies of the FDEP's PARM Plan Approval Order, PARM report approval letters, and e-mail correspondence are in **Attachment A**. A site map is provided as **Figure 1**.

A Discharge Report Form was filed for this site on December 1, 2003. A Remedial Action Plan was approved on June 23, 2006, for the installation of a soil vapor extraction (SVE) system for treatment of the vadose zone soils, and in situ chemical oxidation (ISCO) for treatment of the dissolved and saturated soil impacts. The SVE system was activated on February 26, 2007, and deactivated on June 11, 2008. Six ISCO treatment events were completed from March through November 2007. Two additional ISCO treatment events were completed in February and May 2009 to address residual impacts.

The year 3, quarter 2 PARM sampling event was conducted on December 15, 2010. Groundwater samples were collected from MW-1, MW-8D, MW-13DD, MW-19D, MW-20D, and MW-22D and sent to Accutest Laboratories Southeast, Inc. in Orlando, Florida, for analysis. The sampling was conducted in accordance with the PARM Plan Approval Order and subsequent approved changes as follows:

- Samples collected from MW-8D, MW-13DD, MW-19D, MW-20D, and MW-22D were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by US Environmental Protection Agency Method 8260B.
- Samples collected from MW-1 and MW-8D were analyzed for total dissolved solids (TDS) by Standard Method 19 (SM19) 2540C.

Well purging and groundwater sampling activities were conducted in accordance with the FDEP's Standard Operating Procedures (SOP) *DEP SOP-001/01, FS 2200, Groundwater Sampling*, revised

Ms. Leslie Pedigo
February 10, 2011
Page 2

March 31, 2008, (effective December 3, 2008), and FDEP SOP-PCS-005 *Groundwater Sampling Standard Operating Procedure Variances and Clarifications for Bureau of Petroleum Storage System Sites*, May 2, 2005. A variable-speed peristaltic pump and clean polyethylene tubing were used for purging and sampling activities. An electronic water quality meter was used to track water quality parameters during purging activities. FDEP groundwater sampling logs were used to document well purging time, volume, and rates; depth to groundwater; monitored water quality parameters (hydrogen-ion concentration [pH], temperature, conductivity, dissolved oxygen [DO], turbidity, color, and odor); and sampling data for each well. The intrinsic parameters measured during groundwater sampling meet the guidelines outlined in the FDEP's SOP.

Laboratory analytical results of the groundwater samples collected indicated that the MTBE concentrations were above the Groundwater Cleanup Target Level (GCTL) in wells MW-8D and MW-20D. The TDS concentrations in MW-1 and MW-8D were above the GCTL, as observed previously. Groundwater analytical results are summarized in **Table 1** and presented on **Figure 2** for the deep aquifer. Copies of the laboratory analytical report, chain-of-custody record, FDEP groundwater sampling logs, and calibration sheet are in **Attachment B**.

Prior to the groundwater sampling event, depth-to-water from top-of-casing measurements were recorded from the wells sampled. A groundwater elevation table is provided as **Table 2** and groundwater elevations are shown on **Figure 3** for the deep aquifer for the December 15, 2010, sampling event. A table summarizing DO and pH readings is provided as **Table 3**.

Conclusions and Recommendations

The sampling results of the year 3, quarter 2 PARM sampling period indicate residual MTBE and TDS concentrations remaining above the GCTLs. Shaw recommends continuing PARM for this facility restoration with the elimination of MW-13DD because this well has been below GCTLs for two quarterly events. The next sampling event will occur in March 2011, and a report will be submitted within 60 days of sample collection.

Disclaimer

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client, the county, and the FDEP, unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, county, FDEP, purposes, locations, timeframes, and project parameters indicated. Shaw is not responsible for the impacts of any changes in environmental

Ms. Leslie Pedigo
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standards, practices, or regulations subsequent to performance of services. Shaw does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

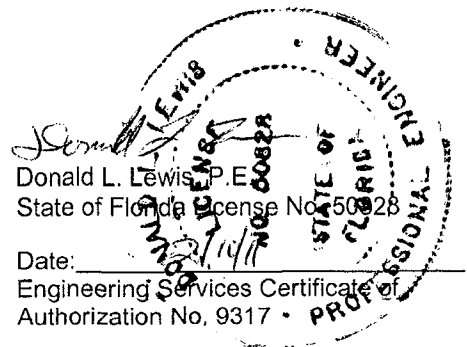
Shaw appreciates the FDEP's assistance with this matter. In the event revisions or clarifications are necessary that can be addressed via e-mail to accelerate and streamline the schedule for this project, please e-mail Donald Lewis at Donald.L.Lewis@shawgrp.com. If you have any questions or require further information, please contact Donald Lewis at (813) 612-3653.

Sincerely,

Shaw Environmental, Inc.



Robert A. Bates, P.E.
Project Engineer



Donald L. Lewis, P.E.
State of Florida License No. 50028
Date: _____
Engineering Services Certificate of
Authorization No. 9317 • PROFESSIONAL ENGINEER

Attachments: Tables
Figures
Attachment A—FDEP's PARM Plan Approval Order dated October 23, 2009, PARM Reports Correspondences
Attachment B—Laboratory Analytical Report, Chain-of-Custody Record, FDEP Groundwater Sampling Logs, and Calibration Sheet

cc: Ken Hilliard, 7-Eleven, Inc. (.pdf)
Jack Reynolds, Shaw, Irving, TX
Shaw/7-Eleven Portal
Tampa Project File

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-1	04/26/04	5.3	0.85	<0.50	<1.0	98.9	<180	<0.52	<0.52	<0.52	<0.0092	<2.9			
	10/06/04	4.4	<0.50	<0.50	<1.0	2,090	<160	<0.96	<0.48	<0.48					
	02/24/05	529	16.7	<5.0	94.6	482									
	04/25/05	573	153	<5.0	70.2	1,440									
	01/12/06	1070	46.5	16.0	129	4,850									
	07/18/06 *	2.5	<0.50	<0.50	<1.0	94.0		<0.98	<0.49	<0.49			1,840	559,000	23,200
	01/22/07	477	<2.5	<2.5	8.3	47.0							819	467,000	8,800
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	8.4							604	489,000	21,500
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U							54.8 (l)	473,000	115,000
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U							2,780	7,120,000	4,640,000
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U			282 (l)	377,000	244,000
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	0.92 (l)									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	1.6									
	03/18/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	0.82 (l)									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	1.4							598	575,000	45,400
	03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	1.8							1,220	615,000	104,000
06/25/10													684,000		
09/16/10													654,000		
12/15/10													710,000		
MW-2	04/26/04	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<0.52	<0.52	<0.52					
	10/06/04	15.4	<0.50	0.67	<1.0	39.7	284	<0.96	<0.48	<0.48					
	02/24/05	3.0	3.9	<0.50	5.1	21.7									
	01/12/06	3.1	<0.50	<0.50	<1.0	47.4									
	07/18/06	<0.50	<0.50	<0.50	<1.0	<0.50		<0.97	<0.49	<0.49					
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.96 U	0.48 U	0.48 U						
MW-3	04/26/04	1.1	<0.50	<0.50	<1.0	1.2	<180	<0.50	<0.50	<0.50					
	10/06/04	<0.50	0.54	<0.50	<1.0	<0.50	<160	<0.96	<0.48	<0.48					
	01/12/06	3.6	<0.50	<0.50	<1.0	<0.50									
	07/19/06	0.65	<0.50	<0.50	<1.0	3.1		<1.0	<0.50	<0.50					
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U						

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-4	04/26/04	<0.50	<0.50	<0.50	<1.0	0.77	<180	<0.51	<0.51	<0.51					
	10/06/04	<0.50	0.54	<0.50	<1.0	<0.50	<170	<0.95	<0.48	<0.48					
	02/24/05	1.5	<0.50	<0.50	<1.0	263									
	05/02/05	1.8	<0.50	<0.50	<1.0	1,780									
	01/12/06	<10	<10	<10	<20	1,190									
	07/19/06	<10	<10	<10	<20	1,380		<1.0	<0.52	<0.52					
	01/22/07	<0.50	<0.50	<0.50	<1.0	1.8									
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	19.0									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	70.7									
11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U										
02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U						
MW-5	04/26/04	<0.50	<0.50	<0.50	<1.0	<0.50	<180	<0.51	<0.51	<0.51					
	10/06/04	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<1.0	<0.50	<0.50					
	01/13/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50					
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					
MW-6	04/26/04	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<0.52	<0.52	<0.52					
	10/06/04	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<0.99	<0.50	<0.50					
	01/13/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/18/06	<0.50	<0.50	<0.50	<1.0	<0.50		<0.98	<0.49	<0.49					
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					
MW-7	10/06/04	<0.50	1.2	<0.50	<1.0	<0.50	<170	<0.95	<0.48	<0.48					
	02/24/05	<0.50	<0.50	<0.50	<1.0	<0.50									
	09/05/06	<0.50	<0.50	<0.50	<1.0	<0.50		<0.95	<0.48	<0.48					

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-8D	02/24/05	0.71	<0.50	<0.50	<1.0	353	<170	<0.95	<0.48	<0.48					
	04/25/05	6.4	0.61	<0.50	<1.0	378									
	05/10/05	4.1	<0.50	<0.50	<1.0	412									
	01/12/06	<0.50	<0.50	<0.50	<1.0	590									
	07/18/06	<5.0	<5.0	<5.0	<10	457		<0.98	<0.49	<0.49					
	01/22/07	<0.50	<0.50	<0.50	<1.0	452									
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	346									
	08/23/07	2.5 U	2.5 U	2.5 U	5.0 U	262									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	69.0									
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	86.8		0.95 U	0.48 U	0.48 U					
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	67.3									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	123									
	03/18/09	0.58 (l)	0.50 U	0.50 U	1.0 U	95.6									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	49.7									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	70.6									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	68.8							198 (l)	856,000	126,000
03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	57.9							41.8 (l)	1,360,000	325,000	
06/25/10	0.50 U	0.50 U	0.50 U	1.0 U	62.1								611,000	105,000	
09/16/10	0.21 U	0.20 U	0.20 U	0.54 U	60.8								770,000	160,000	
2/15/10	0.20 U	0.20 U	0.20 U	0.52 U	49.7								614,000		
MW-9	07/19/05	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<0.96	<0.48	<0.48					
	01/12/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50					
	02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					
MW-10	07/19/05	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<1.0	<0.50	<0.50					
	01/13/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50					
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-11	07/19/05	<0.50	<0.50	<0.50	<1.0	<0.50	179	<0.96	<0.48	<0.48					
	01/12/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06 *	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50			48.3	246,000	73,500
	01/22/07	<0.50	<0.50	<0.50	<1.0	<0.50							622	180,000	85,400
	05/17/07												24.1 (I)	203,000	50,500
	08/23/07												48.6 (I)	229,000	48,500
	11/27/07												15 U	268,000	30,100
	02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U			15 U	114,000	38,800
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	03/18/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U										
12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U							27.0 (I)	306,000	55,700	
03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U							16 U	323,000	60,500	
MW-12D	07/19/05	<0.50	<0.50	<0.50	<1.0	62.3	<170	<0.96	<0.48	<0.48					
	01/12/06	<0.50	<0.50	<0.50	<1.0	50.4									
	07/19/06	<0.50	<0.50	<0.50	<1.0	45.0		<1.0	<0.50	<0.50					
	01/22/07	<0.50	<0.50	<0.50	<1.0	86.5									
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	196									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	2.6									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	20.8									
	02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	13.7		0.95 U	0.48 U	0.48 U					
MW-13DD	07/19/05	<0.50	<0.50	<0.50	<1.0	<0.50	<180	<1.1	<0.54	<0.54					
	01/12/06	<0.50	0.62	<0.50	<1.0	0.88									
	07/18/06	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50					
	02/14/08	0.50 U	0.50 U	0.50 U	1.0 U	146		0.95 U	0.48 U	0.48 U					
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	37.8									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	37.7									
	03/18/09	0.50 U	0.50 U	0.50 U	1.0 U	87.0									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	1.8									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	6.5									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	33.1									
	03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	0.99 (I)									
	06/25/10	0.50 U	0.50 U	0.50 U	1.0 U	49.1									
	09/16/10	0.21 U	0.20 U	0.20 U	0.54 U	7.8									
12/15/10	0.20 U	0.20 U	0.20 U	0.52 U	0.34 U										

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-17D	08/29/05	<0.50	<0.50	<0.50	<1.0	2.6	<170	<0.95	<0.48	<0.48					
	01/13/06	<0.50	0.62	<0.50	<1.0	<0.50									
	07/18/06	<0.50	<0.50	<0.50	<1.0	<0.50		<0.98	<0.49	<0.49					
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	4.3									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	2.3									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	1.9									
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	4.1		0.95 U	0.48 U	0.48 U					
MW-18D	08/29/05	<0.50	<0.50	<0.50	<1.0	<0.50	<170	<0.98	<0.49	<0.49					
	01/12/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/18/06	<0.50	<0.50	<0.50	<1.0	<0.50		<0.96	<0.48	<0.48					
	02/15/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					
MW-19D	08/29/05	<0.50	<0.50	<0.50	<1.0	4.4	<170	<0.98	<0.49	<0.49					
	01/12/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06	<0.50	<0.50	<0.50	<1.0	1.2		<1.0	<0.50	<0.50					
	05/17/07	0.50 U	0.50 U	0.50 U	1.0 U	2.8									
	08/23/07	0.50 U	0.50 U	0.50 U	1.0 U	2.7									
	11/27/07	0.50 U	0.50 U	0.50 U	1.0 U	3.1									
	02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	3.9		0.96 U	0.48 U	0.48 U					
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	5.8									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	4.7									
	03/18/09	0.50 U	0.50 U	0.50 U	1.0 U	4.7									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	1.5									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	0.87 (l)									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	2.2									
	03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	2.2									
	06/25/10	0.50 U	0.50 U	0.50 U	1.0 U	2.1									
09/16/10	0.21 U	0.20 U	0.20 U	0.54 U	2.2										
12/15/10	0.20 U	0.20 U	0.20 U	0.52 U	2.8										

TABLE 1: GROUNDWATER ANALYTICAL SUMMARY

Facility Name: 7-Eleven Store No. 32351

Facility ID No.: 519800607

Sample		Laboratory Analysis (µg/L)													
Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	EDB	Lead	Iron	Total Dissolved Solids	Sulfate
GCTLs		1	40	30	20	20	5,000	14	28	28	0.02	15	300	500,000	250,000
NADCs		100	400	300	200	200	50,000	140	280	280	0.2	150	3,000	5,000,000	2,500,000
MW-20D	08/29/05	<0.50	<0.50	<0.50	<1.0	24.7	<180	<0.99	<0.50	<0.50					
	01/12/06	<0.50	<0.50	<0.50	<1.0	38.8									
	07/19/06	<0.50	<0.50	<0.50	<1.0	12.0		<1.0	<0.50	<0.50					
	02/13/08	0.50 U	0.50 U	0.50 U	1.0 U	67.5		0.95 U	0.48 U	0.48 U					
	08/15/08	0.50 U	0.50 U	0.50 U	1.0 U	53.6									
	11/11/08	0.50 U	0.50 U	0.50 U	1.0 U	182									
	03/18/09	0.50 U	0.50 U	0.50 U	1.0 U	145									
	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	22.6									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	35.7									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	86.7									
	03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	89.3									
	06/25/10	0.50 U	0.50 U	0.50 U	1.0 U	125									
09/16/10	0.21 U	0.20 U	0.20 U	0.54 U	53.5										
12/15/10	0.20 U	0.20 U	0.20 U	0.52 U	93.4										
MW-21D	08/29/05	<0.50	<0.50	<0.50	<1.0	0.65	<170	<0.95	<0.48	<0.48					
	01/13/06	<0.50	<0.50	<0.50	<1.0	<0.50									
	07/19/06	<0.50	<0.50	<0.50	<1.0	<0.50		<1.0	<0.50	<0.50					
	02/12/08	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U		0.95 U	0.48 U	0.48 U					
MW-22D	06/19/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	09/23/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	12/16/09	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	03/17/10	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	06/25/10	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U									
	09/16/10	0.21 U	0.20 U	0.20 U	0.54 U	0.25 U									
	12/15/10	0.20 U	0.20 U	0.20 U	0.52 U	0.34 U									

Notes: GCTLs = Groundwater Cleanup Target Levels per Chapter 62-777, Florida Administrative Code (FAC), Table I

NADCs = Natural Attenuation Default Concentrations per Chapter 62-777, FAC, Table V

Data collected after May 1, 2007, is input to meet the reporting requirements for qualifiers in the

May 14, 2007, FDEP Quality Assurance and Related Issues Memorandum.

* = represents background sampling event prior to RAP implementation for iron, total dissolved solids, and sulfate

Blank cell indicates no data.

µg/L = micrograms per liter

EDB = 1,2-dibromoethane

MTBE = methyl tertiary butyl ether

TRPH = total recoverable petroleum hydrocarbons

Bold cells indicate GCTL exceeded

Bold and shaded cells indicate NADC exceeded

(I) = result >/= Method Detection Limit (MDL) but < Reporting Limit

Shaded date indicates most recent sampling event

U = not detected above MDL

TABLE 2: GROUNDWATER ELEVATION DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-1			MW-2			MW-3			MW-4			MW-5			MW-6					
	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF			
DIAMETER (inches)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
WELL DEPTH (ft bis)	17	20	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
SCREEN INTERVAL (feet)	5-17	5-20	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17	5-17		
TOC ELEVATION	39.00	40.13	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69	39.69		
DATE	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF
04/26/04	9.42	29.58	0.67	10.42	29.71	0.24	10.03	29.66	0.36	10.14	29.51	0.47	9.41	29.40	0.52	8.71	29.63	0.31	8.71	29.63	0.31
10/06/04	4.68	34.32	4.74	5.78	34.35	4.64	5.30	34.39	4.73	5.39	34.26	4.75	4.64	34.17	4.77	4.04	34.30	4.67	4.64	34.17	4.77
02/24/05	10.17	28.83	-5.49	11.14	28.89	-5.36	10.86	28.83	-5.56	10.89	28.76	-5.50	10.18	28.63	-5.54	9.49	28.85	-5.45	9.49	28.85	-5.45
04/25/05	10.50	28.50	-0.33																		
05/10/05																					
07/19/05	9.83	29.17	0.67	10.90	29.23	0.24	10.50	29.19	0.36	10.42	29.23	0.47	9.86	29.15	0.52	9.18	29.16	0.31	9.18	29.16	0.31
01/12/06	12.68	26.32	-2.85	13.76	26.37	-2.86	13.29	26.40	-2.79	13.38	26.27	-2.96	12.61	26.20	-2.95	12.04	26.30	-2.86	12.04	26.30	-2.86
07/18/06	13.91	25.09	-1.23	14.79	25.34	-1.03	14.53	25.16	-1.24	14.57	25.08	-1.19	13.74	25.07	-1.13	13.19	25.15	-1.15	13.19	25.15	-1.15
01/22/07	12.30	26.70	1.61							12.96	26.69	1.61									
02/26/07	12.73	26.27	-0.43	13.98	26.15	0.81	13.31	26.38	1.22	13.56	26.09	-0.60	12.59	26.22	1.15						
03/09/07	12.64	26.36	0.09	14.03	26.10	-0.05	13.35	26.34	-0.04	13.44	26.21	0.12	12.69	26.12	-0.10						
03/21/07	12.81	26.19	-0.17	14.20	25.93	-0.17	13.43	26.26	-0.08	13.59	26.06	-0.15	12.81	26.00	-0.12	12.24	26.10	0.95	12.24	26.10	0.95
03/28/07	12.97	26.03	-0.16	14.28	25.85	-0.08	13.58	26.11	-0.15	13.63	26.02	-0.04	12.92	25.89	-0.11						
04/23/07	13.20	25.80	-0.23	14.57	25.56	-0.29	13.88	25.81	-0.30	13.96	25.69	-0.33	13.21	25.60	-0.29	12.61	25.73	-0.37	12.61	25.73	-0.37
05/17/07	13.73	25.27	-0.53	14.90	25.23	-0.33	14.24	25.45	-0.36	14.39	25.26	-0.43	14.69	24.12	-1.48	13.02	25.32	-0.41	13.02	25.32	-0.41
08/23/07	13.92	25.08	-0.19	15.08	25.05	-0.18	14.61	25.08	-0.37	14.74	24.91	-0.35	14.01	24.80	0.68						
11/27/07	13.48	25.52	0.44	14.82	25.31	0.26	14.13	25.56	0.48	14.20	25.45	0.54	13.44	25.37	0.57						
02/13/08	12.92	26.08	0.56	14.27	25.86	0.55	13.59	26.10	0.54	13.51	26.14	0.69	12.70	26.11	0.74	12.25	26.09	0.77	12.25	26.09	0.77
08/15/08	11.01	27.99	1.91																		
11/11/08	12.01	26.99	-1.00																		
03/18/09	14.09	24.91	-2.08																		
06/19/09	14.65	24.35	-0.56																		
09/23/09	10.48	28.52	4.17																		
12/16/09	11.38	27.62	-0.90																		
03/17/10	10.64	28.36	0.74																		
06/25/10	10.88	28.12	-0.24																		
09/16/10	8.04	30.96	2.84																		
12/15/10	10.92	28.08	-2.88																		

TABLE 2: GROUNDWATER ELEVATION DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-7			MW-8D			MW-9			MW-10			MW-11			MW-12D			
	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	
DIAMETER (inches)		1			1			1			1			1			1		2
WELL DEPTH (ft bls)		13		45			17			17			17			17			49
SCREEN INTERVAL (feet)		3-13		40-45			7-17			7-17			7-17			7-17			44-49
TOC ELEVATION		39.10		39.01			39.91			39.63			39.58			39.49			39.49
DATE																			
10/06/04	4.79	34.31																	
02/24/05	10.31	28.79	-5.52	10.55	28.46														
04/25/05				10.86	28.15	-0.31													
05/10/05				10.87	28.14	-0.01													
07/19/05	9.83	29.27	0.48	9.96	29.05	0.91	10.45	29.46		10.75	28.88		10.46	29.12		10.48	29.01		
01/12/06	12.44	26.66	-2.61	12.89	26.12	-2.93	13.68	26.23	-3.23	13.41	26.22	-2.66	13.37	26.21	-2.91	13.34	26.15	-2.86	
07/18/06		DRY		14.04	24.97	-1.15	14.84	25.07	-1.16	14.52	25.11	-1.11	14.59	24.99	-1.22	14.49	25.00	-1.15	
01/22/07				12.51	26.50	1.53							12.99	26.59	1.60	12.97	26.52	1.52	
03/21/07	12.57	26.53	-0.13	12.94	26.07	-0.43	13.90	26.01	0.94				13.62	25.96	-0.63	13.57	25.92	-0.60	
04/23/07	12.62	26.48	-0.05				14.29	25.62	-0.39	14.07	25.56	0.45							
05/17/07	12.69	26.41	-0.07	13.85	25.16	-0.91	14.76	25.15	-0.47	14.53	25.10	-0.46	14.44	25.14	-0.82	14.52	24.97	-0.95	
08/23/07				14.84	24.17	-0.99							14.77	24.81	-0.33	14.80	24.69	-0.28	
11/27/07				14.63	24.38	0.21							14.24	25.34	0.53	14.24	25.25	0.56	
02/13/08		DRY		13.14	25.87	1.49	13.84	26.07	0.92	13.47	26.16	1.06	13.60	25.98	0.64	13.42	26.07	0.82	
08/15/08				11.06	27.95	2.08							11.63	27.95	1.97				
11/11/08				12.31	26.70	-1.25							12.73	26.85	-1.10				
03/18/09				14.30	24.71	-1.99							14.78	24.80	-2.05				
06/19/09				14.92	24.09	-0.62							15.36	24.22	-0.58				
09/23/09				10.64	28.37	4.28							11.10	28.48	4.26				
12/16/09				11.57	27.44	-0.93							12.07	27.51	-0.97				
03/17/10				10.49	28.52	1.08							11.22	28.36	0.85				
06/25/10				11.27	27.74	-0.78													
09/16/10				8.35	30.66	2.92													
12/15/10				11.38	27.63	-3.03													

TABLE 2: GROUNDWATER ELEVATION DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-13DD			MW-17D			MW-18D			MW-19D			MW-20D			MW-21D			
	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	
	10.05	28.45																	
DIAMETER (inches)				2	2		2	2		2	2		2	2		2	2		2
WELL DEPTH (ft bis)				48	48		48	48		48	48		48	48		48	48		48
SCREEN INTERVAL (feet)				43-48	43-48		43-48	43-48		43-48	43-48		43-48	43-48		43-48	43-48		43-48
TOC ELEVATION				38.51	40.16		39.67	39.68		39.02	39.02		39.68	39.68		39.02	39.02		39.02
DATE	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW
07/19/05	10.05	28.45																	
08/29/05				10.15	28.36		11.92	28.24		11.38	28.29		10.95	28.73		10.73	28.29		
01/12/06	12.97	25.53	-2.92	11.36	27.15	-1.21	14.11	26.05	-2.19	13.56	26.11	-2.18	13.48	26.20	-2.53	12.93	26.09	-2.20	
07/18/06	14.12	24.38	-1.15	13.56	24.95	-2.20	15.23	24.93	-1.12	14.73	24.94	-1.17	14.60	25.08	-1.12	14.03	24.99	-1.10	
03/21/07	13.22	25.28	0.90	14.27	24.24	-0.71	14.35	25.81	0.88	13.80	25.87	0.93	13.60	26.08	1.00				
04/23/07							14.77	25.39	-0.42										
05/17/07	14.18	24.32	-0.96	13.34	25.17	0.93	15.22	24.94	-0.45	14.71	24.96	-0.91	14.39	25.29	-0.79	14.13	24.89	-0.10	
08/23/07				13.92	24.59	-0.58				14.82	24.85	-0.11							
11/27/07				13.28	25.23	0.64				14.42	25.25	0.40							
02/13/08	13.06	25.44	1.12	12.53	25.98	0.75	14.19	25.97	1.03	13.70	25.97	0.72	13.38	26.30	1.01	12.99	26.03	1.14	
08/15/08	11.23	27.27	1.83							11.93	27.74	1.77	11.43	28.25	1.95				
11/11/08	12.44	26.06	-1.21							13.01	26.66	-1.08	12.72	26.96	-1.29				
03/18/09	14.70	23.80	-2.26							14.97	24.70	-1.96	14.68	25.00	-1.96				
06/19/09	15.03	23.47	-0.33							15.49	24.18	-0.52	15.24	24.44	-0.56				
09/23/09	10.66	27.84	4.37							11.25	28.42	4.24	10.94	28.74	4.30				
12/16/09	11.61	26.89	-0.95							12.23	27.44	-0.98	11.93	27.75	-0.99				
03/17/10	10.42	28.08	1.19							11.20	28.47	1.03	10.72	28.96	1.21				
06/25/10	11.41	27.09	-0.99							11.94	27.73	-0.74	11.72	27.96	-1.00				
09/16/10	8.47	30.03	2.94							9.03	30.64	2.91	8.75	30.93	2.97				
12/15/10	11.48	27.02	-3.01							12.03	27.64	-3.00	11.76	27.92	-3.01				

TABLE 2: GROUNDWATER ELEVATION DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-22D		DTW	ELE	DIFF
	DIAMETER (inches)	WELL DEPTH (ft bis)			
	2				
	48				
	43-48				
	NS				
TOC ELEVATION					
DATE	DTW	ELE	DIFF		
06/19/09	15.20				
09/23/09	11.00				
12/16/09	11.99				
03/17/10	10.79				
06/25/10	11.80				
09/16/10	8.82				
12/15/10	11.85				

WELL NO.	IP-1		IP-2		IP-3		IP-4		IP-5		IP-6	
	DTW	ELE	DTW	ELE	DTW	ELE	DTW	ELE	DTW	ELE	DTW	ELE
	13.66	2		2		2		2		2		2
	13.76	50		50		50		50		50		50
		5-50		5-50		5-50		5-50		5-50		5-50
DATE	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF	DTW	ELE	DIFF
04/23/07	13.66			13.84			14.15			14.15		
05/17/07	13.76			14.28			14.56			14.56		

Notes: DIFF = difference in elevation since previous gauging event
 DTW = depth to water
 ELE = elevation
 ft bis = feet below land surface
 FP = free product
 TOC = top of casing
 NS = not surveyed
 No Data = Blank

TABLE 3: REMEDIAL INFLUENCE DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-1			MW-2			MW-3			MW-4			MW-5		
	2			20			2			2			2		
	DIAMETER (inches)	WELL DEPTH (ft bls)	SCREEN INTERVAL (ft bls)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
	17	5-17	4.0	0.32	1.25	0.08	0.04	0.03	0.08	0.04	0.03	0.08	0.04	0.03	0.08
02/26/07	2.6	0.22	1.55	1.08	0.02	0.04	0.02	0.04	0.08	0.02	0.04	0.08	0.02	0.04	0.08
03/09/07	3.33	0.23	1.50	1.55	0.08	0.05	0.08	0.10	0.08	0.05	0.08	0.10	0.08	0.08	0.10
03/15/07	>2.0	0.25	2.40	0.30	1.46	0.92	0.10	0.53	0.08	0.10	0.53	0.08	0.10	0.08	0.77
03/28/07	2.40	0.28	23.21*	0.28	1.46	0.92	0.10	0.48	0.08	0.10	0.48	0.08	0.10	1.00	
04/23/07	2.80	1.12	0.95	0.07	1.46	0.01	0.01	0.03	0.08	0.01	0.03	0.08	0.01	0.03	3.40
05/17/07	2.99	0.07	17.02*	0.01	1.93	0.00	0.00	0.96	0.08	0.00	0.96	0.08	0.00	0.00	2.46
08/23/07	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
12/11/07	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
02/13/08	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
08/15/08	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
11/11/08	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
03/18/09	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
06/19/09	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
09/23/09	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
12/16/09	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
03/17/10	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
06/25/10	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
09/16/10	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95
12/15/10	0.21	5.76	1.22	6.28	1.22	6.44	1.20	6.28	1.07	6.22	0.50	6.20	0.60	6.45	0.95

WELL NO.	MW-6			MW-7			MW-8D			MW-9			MW-10		
	2			13			45			1			1		
	DIAMETER (inches)	WELL DEPTH (ft bls)	SCREEN INTERVAL (ft bls)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
	17	5-17	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	
06/17/07	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
08/23/07	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
11/27/07	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
02/13/08	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
08/15/08	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
11/11/08	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
03/18/09	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
06/19/09	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
09/23/09	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
12/16/09	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
03/17/10	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
06/25/10	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
09/16/10	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	
12/15/10	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	0.52	0.02	6.04	

TABLE 3: REMEDIAL INFLUENCE DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	MW-11			MW-12D			MW-13DDD			MW-17D			MW-18D		
	Diameter (inches)	Well Depth (ft bis)	Screen Interval (ft bis)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
	1	17	7-17												
	2	49	44-49												
	2	69	64-69												
	2	48	43-48												
DATE															
05/17/07						0.7									
08/23/07						1.12									
11/27/07						1.17									
02/13/08				0.00		1.47									
08/15/08						0.94									
11/11/08						0.87									
03/18/09						1.02									
06/19/09						0.88									
09/23/09						0.40									
12/16/09						1.04									
03/17/10						1.12									
06/25/10															
09/16/10															
12/15/10															

WELL NO.	MW-19D			MW-20D			MW-21D			MW-22D		
	Diameter (inches)	Well Depth (ft bis)	Screen Interval (ft bis)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
	2	48	43-48									
	2	48	43-48									
	2	48	43-48									
	2	48	43-48									
DATE												
05/17/07						0.42						
08/23/07						0.19						
11/27/07						0.36						
02/13/08						0.35						
08/15/08						0.98						
11/11/08						1.05						
03/18/09						0.56						
06/19/09						0.60						
09/23/09						0.39						
12/16/09						1.18						
03/17/10						1.12						
06/25/10						0.66						
09/16/10						0.58						
12/15/10						0.25						

TABLE 3: REMEDIAL INFLUENCE DATA

Facility Name: 7-Eleven Store No. 32351 Facility ID No.: 519800607

WELL NO.	IP-1			IP-3			IP-6		
	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
DIAMETER (inches)	2			1			1		
WELL DEPTH (ft bls)	50			50			50		
SCREEN INTERVAL (ft bls)	5-50			5-50			5-50		
DATE	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)	Vacuum (in-WC)	pH	DO (mg/L)
02/26/07	2.5			0.26			0.10		
03/09/07	1.65			0.20			0.10		
03/15/07	1.86			0.22			0.05		
03/28/07	1.80			0.20			0.20		
04/23/07	1.95			0.30			0.10		
05/17/07	1.75			0.34			0.04		

Notes:
 DO = dissolved oxygen
 ft bls = feet below land surface
 in-WC = inches of water column
 mg/L = milligrams per Liter
 NA = not applicable
 P = indicates pressure reading
 Blank = Not recorded
 * = High DO value may be residual effects of the chemical oxidation activities.

DRAWN BY	SOJ	CHECKED BY	
BY	7-19-10	APPROVED BY	
DRAWING NUMBER		138354-B6	



LEGEND:
 MONITORING WELL LOCATION

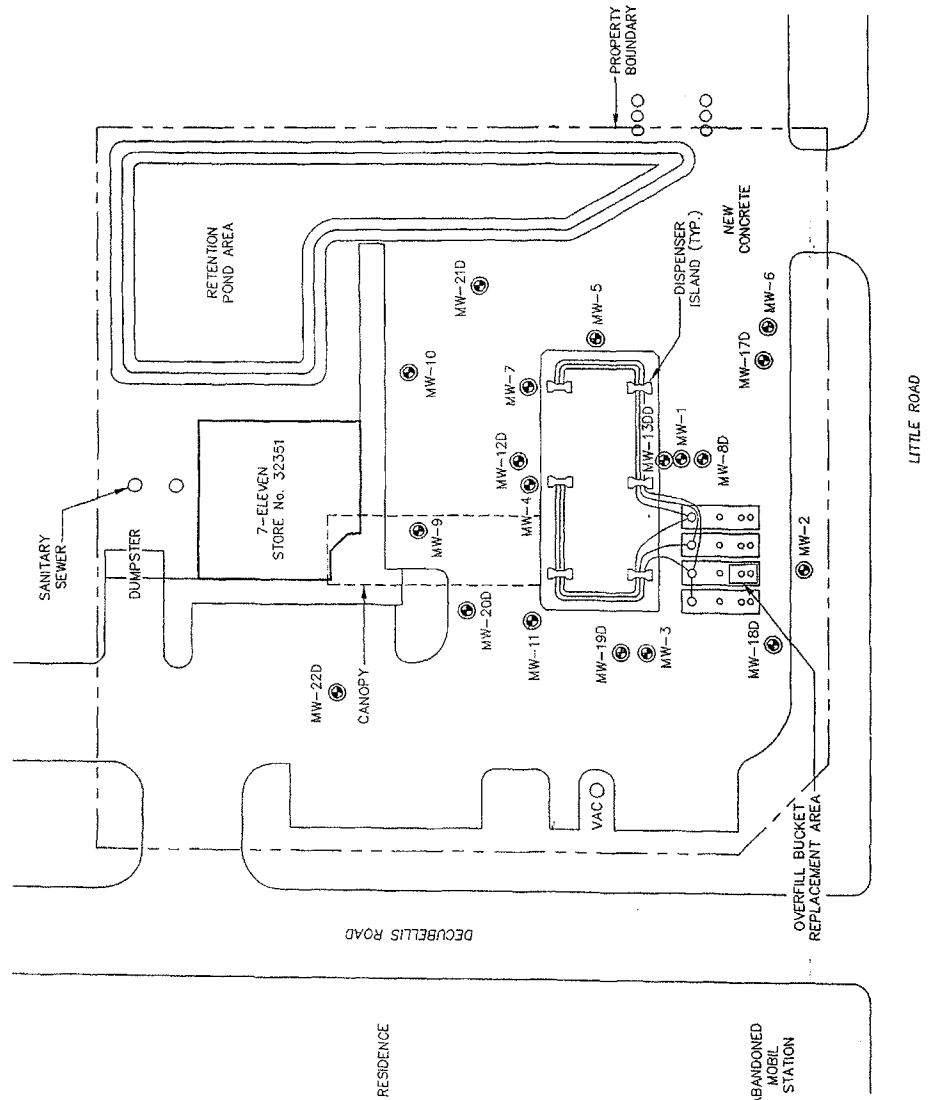

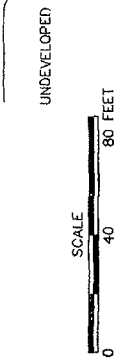


FIGURE I
 SITE MAP
 7-ELEVEN STORE No. 32351
 6925 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA
 PREPARED FOR
 7-ELEVEN, INC.
 DALLAS, TEXAS
 Shaw Environmental, Inc.



UNDEVELOPED
 GAS KWIK MART

STRIP CENTER

LITTLE ROAD

OVERFILL BUCKET REPLACEMENT AREA

ABANDONED MOBIL STATION

RESIDENCE

DECUBELLIS ROAD

7-ELEVEN STORE No. 32351

SANITARY SEWER

DUMPSTER

CANOPY

VACO

RETENTION POND AREA

DISPENSER ISLAND (TYP.)

NEW CONCRETE

PROPERTY BOUNDARY

MONITORING WELL LOCATION

MONITORING WELL LOCATION

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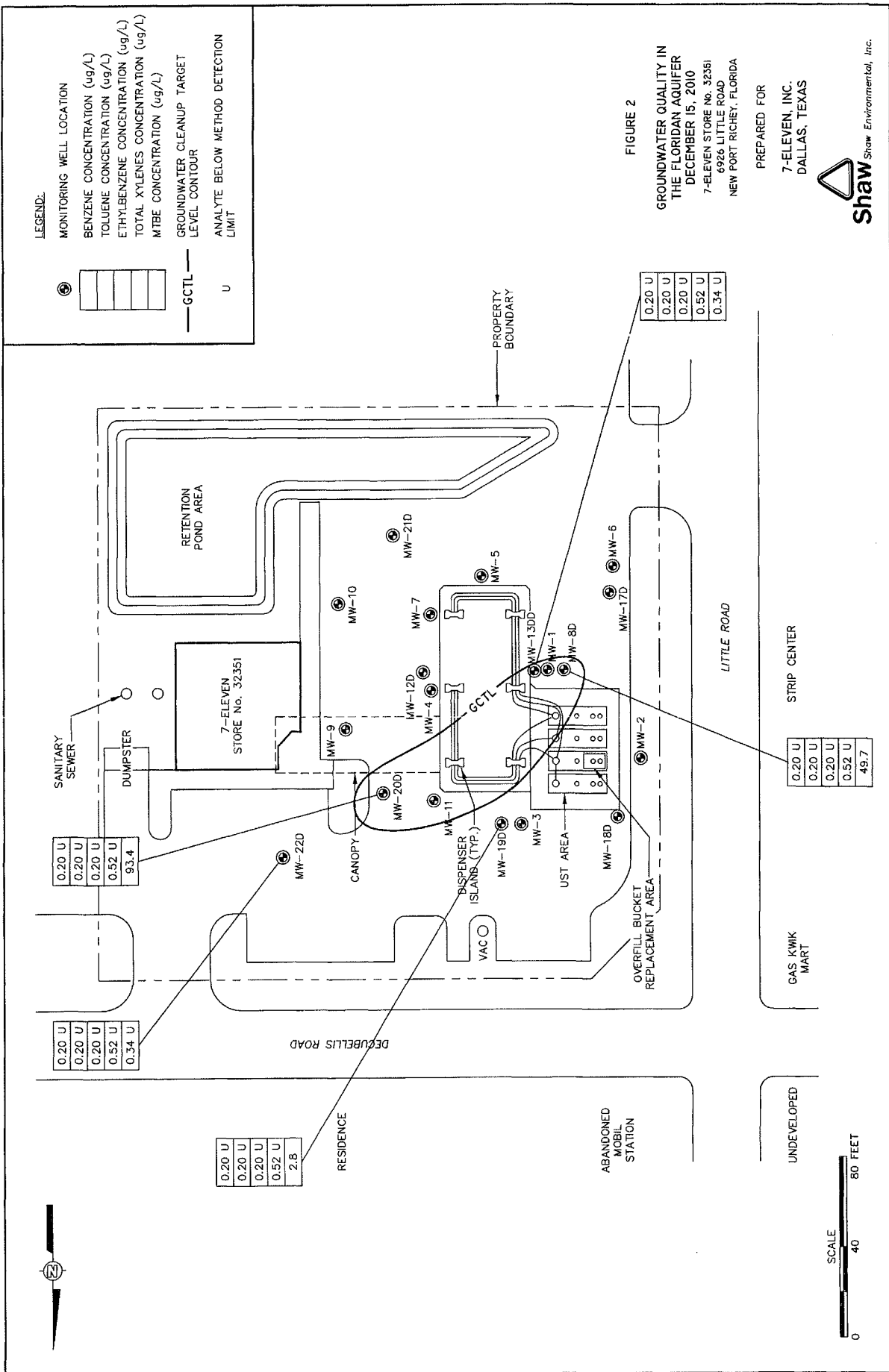
MONITORING WELL LOCATION

MONITORING WELL LOCATION

MONITORING WELL LOCATION

DRAWING NUMBER 138354-B12

BY SDF 11-9-10 APPROVED BY



LEGEND:

MONITORING WELL LOCATION

BENZENE CONCENTRATION (ug/L)

TOLUENE CONCENTRATION (ug/L)

ETHYLBENZENE CONCENTRATION (ug/L)

TOTAL XYLENES CONCENTRATION (ug/L)

MTBE CONCENTRATION (ug/L)

GROUNDWATER CLEANUP TARGET LEVEL CONTOUR

ANALYTE BELOW METHOD DETECTION LIMIT

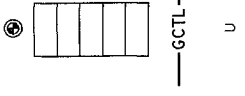


FIGURE 2

GROUNDWATER QUALITY IN THE FLORIDAN AQUIFER

DECEMBER 15, 2010

7-ELEVEN STORE No. 32351
6926 LITTLE ROAD
NEW PORT RICHEY, FLORIDA

PREPARED FOR

7-ELEVEN, INC.
DALLAS, TEXAS



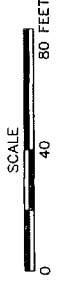
0.20 U
0.20 U
0.20 U
0.52 U
0.34 U

0.20 U
0.20 U
0.20 U
0.52 U
93.4

0.20 U
0.20 U
0.20 U
0.52 U
2.8

0.20 U
0.20 U
0.20 U
0.52 U
0.34 U

0.20 U
0.20 U
0.20 U
0.52 U
49.7



DRAWN	SOJF	1-27-11	APPROVED BY	
NUMBER	138354-B11			



LEGEND:

- ⊙ MONITORING WELL LOCATION
- (27.92) GROUNDWATER ELEVATION (FEET)
- 27.50— GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- * DATA NOT USED TO DETERMINE CONTOURS

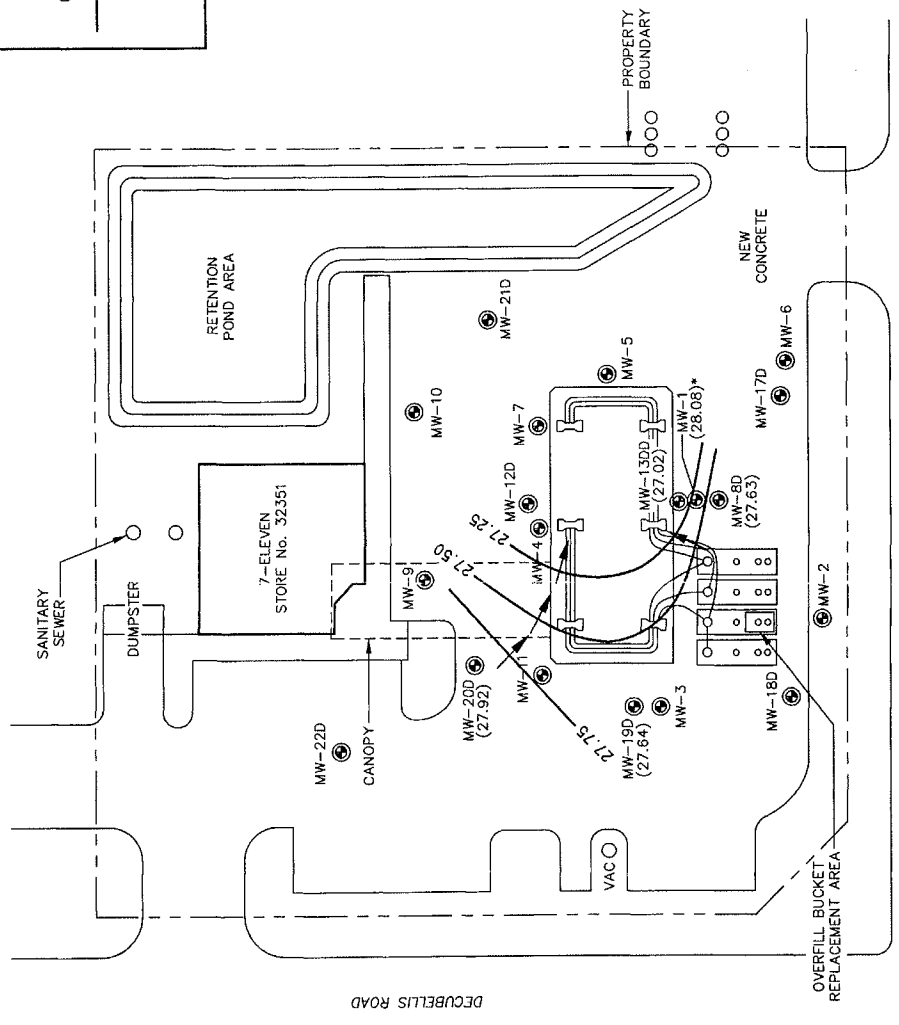
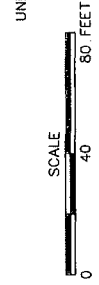


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP IN THE FLORIDAN AQUIFER
 DECEMBER 15, 2010
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 DALLAS, TEXAS



UNDEVELOPED

GAS KWIK MART

STRIP CENTER

LITTLE ROAD

OVERELL BUCKET REPLACEMENT AREA

ABANDONED MOBIL STATION

RESIDENCE

DECUBELLIS ROAD

7-ELEVEN STORE No. 32351

RETENTION POND AREA

PROPERTY BOUNDARY

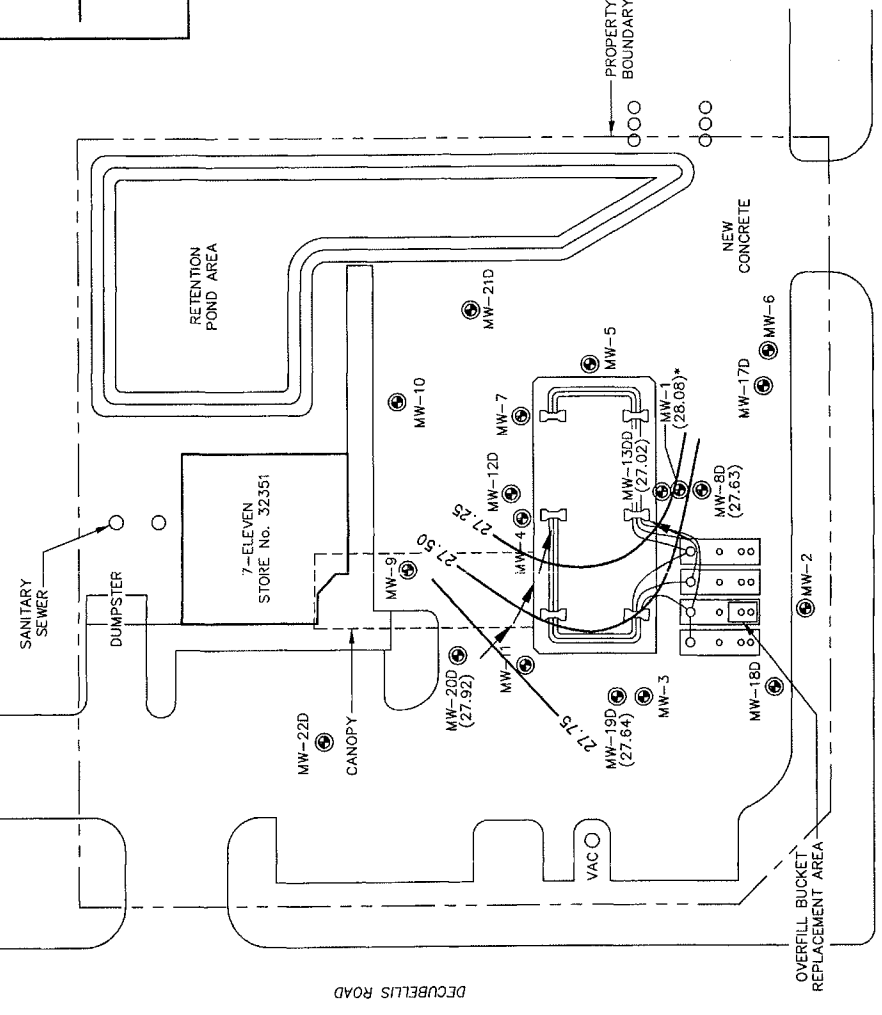
NEW CONCRETE

SANITARY SEWER

DUMPSTER

CANOPY

VAC





Florida Department of
Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi Drew
Secretary

December 27, 2010

Mr. Ken Hilliard
7-Eleven, Inc.
P.O. Box 711 (Loc. 0148)
Dallas, Texas 75221

**Re: 7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607
Discharge Date: December 1, 2003**

Dear Mr. Hilliard:

Ian Tiang of the Bureau of Petroleum Storage Systems, Petroleum Cleanup Section 5, has reviewed the Fifth Quarter Post Active Remediation Monitoring Report, dated November 11, 2010 (received November 12, 2010), prepared and submitted by Shaw Environmental, Inc., for the above referenced facility. The monitoring program should be continued as outlined in the Department's October 23, 2009 Post Active Remediation Monitoring Plan Approval Order with the following modification:

Sampling for sulfate analysis may be discontinued.

The Department requests that written notification be provided at least three days prior to performing all future sampling events. If you have any questions, please contact me at (813) 632-7600, ext. 427.

Sincerely,

Leslie E. L. Pedigo
Environmental Specialist III
Tanks Program
Division of Waste Management

LP

Attachment: Memo, dated September 9, 2010

ec: David Peterson, 7-Eleven, Inc.; david.peterson@7-11.com
Donald Lewis, Shaw Environmental, Inc.; Donald.L.Lewis@shawgrp.com
Ken McGuire, Pasco County Health Department; ken_maguire@doh.state.fl.us
Ian Tiang, FDEP-BPSS, Petroleum Cleanup Section 5; itiang@wrscompass.com

Florida Department of
Environmental Protection

Memorandum

To: Leslie Pedigo, District Project Manager
Southwest District Tanks Program
13051 North Telecom Parkway, Temple Terrace, Florida 33637

Through: Tom Conrardy, P.E. Administrator *TC*
Bureau of Petroleum Storage Systems (BPSS)
Petroleum Cleanup Section (PCS) 3

Through: Diane Pickett, P.G., Environmental Manager *DP*
BPSS – PCS 5

From: Ian Tiang, P.E., WRScompass Project Engineer *IT*
BPSS – PCS 5

Date: December 14, 2010

Subject: Technical Review Determination – Year 3, Quarter 1 Post Active Remediation
Monitoring (PARM) Report
7-Eleven Store No. 32351 (DRF#1: 12/01/03)
6926 Little Road (SA, RAP & PARM approvals: 11/16/05, 6/23/06 & 10/23/09)
New Port Richey, Pasco County, Florida
FDEP Facility ID # 51/9800607 (TDR # 31951)

Dept. Of Environmental Protection
DEC 20 2010
Southwest District

I have reviewed the Y3Q1 PARM Report dated November 11, 2010 (received by the Southwest District on November 12, 2010, and by the BPSS in Tallahassee on November 19, 2010). The report was prepared and submitted by Shaw Environmental, Inc.

The document provides a summary of the groundwater sampling activities conducted on September 16, 2010. Groundwater samples were collected from MW-1, MW-8D, MW-13DD, MW-19D, MW-20D, and MW-22D. Samples collected from MW-1 were analyzed for total dissolved solids (TDS) only and the remaining samples collected were analyzed for BTEX and MTBE. Samples collected from MW-8D were also analyzed for TDS and sulfate. MTBE and TDS were the only two constituents detected at levels exceeding the GCTLs but below the NADCs. Based on the reported concentrations, Shaw recommends continuing PARM sampling. They also recommend discontinuing sampling for sulfate analysis. Based on my review, these recommendations are acceptable. Therefore, I recommend approval of the report by the FDEP.

If you have any questions regarding this review, please contact me at (850) 222-6446, ext. 257 or at itiang@wrscompass.com.

Memorandum

**Florida Department of
Environmental Protection**

TO: Tom Conrardy
Bureau of Petroleum Storage Systems
Petroleum Cleanup Section 3
Mail Station 4530

FROM: Leslie Pedigo *LP*
Southwest District

DATE: November 16, 2010

SUBJECT: Quarter 4 Post Active Remedial Monitoring Report
PARM Modification Request
7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607

Enclosed please find the above referenced report for your review and comments. This document has been submitted for scanning into OCULUS. Since this site is currently not eligible for one of the cleanup programs, please send your comments to me.

Thanks for your assistance!

LP

Enclosure



November 11, 2010

Ms. Leslie Pedigo
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

**Re: Year 3, Quarter 1 Post-Active Remedial Monitoring Report
7-Eleven Store No. 32351
6926 Little Road
New Port Richey, Florida
FDEP Facility ID No.: 519800607, Non-Program Site
Project No. 138354-32351000**

Dear Ms. Pedigo:

Shaw Environmental, Inc. (Shaw), on behalf of 7-Eleven, Inc., has completed the year 3, quarter 1 post-active remedial monitoring (PARM) event for the referenced site in accordance with the Florida Department of Environmental Protection's (FDEP) PARM Plan Approval Order dated October 23, 2009, and modifications as discussed below. A copy of FDEP's PARM Plan Approval Order is in **Attachment A**. A site map is provided as **Figure 1**.

A Discharge Report Form was filed for this site on December 1, 2003. A Remedial Action Plan was approved on June 23, 2006, for the installation of a soil vapor extraction (SVE) system for treatment of the vadose zone soils, and in situ chemical oxidation (ISCO) for treatment of the dissolved and saturated soil impacts. The SVE system was activated on February 26, 2007, and deactivated on June 11, 2008. Six ISCO treatment events were completed from March through November 2007. Two additional ISCO treatments were completed in February and May 2009 to address residual impacts.

The year 3, quarter 1 PARM sampling event was conducted on September 16, 2010. Groundwater samples were collected from MW-1, MW-8D, MW-13DD, MW-19D, MW-20D, and MW-22D and sent to Accutest Laboratories Southeast, Inc. in Orlando, Florida, for analysis. The sampling was conducted in accordance with the PARM Plan Approval Order and subsequent approved changes as follows:

- Samples collected from MW-8D, MW-13DD, MW-19D, MW-20D, and MW-22D were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by US Environmental Protection Agency (EPA) Method 8260B.
- Samples collected from MW-1 and MW-8D were analyzed for total dissolved solids (TDS) by Standard Method 19 (SM19) 2540C.
- The sample collected from MW-8D was analyzed for sulfate by EPA Method 300.

- Analyses of iron for MW-1, MW-8D, and MW-11, sulfate in MW-1 and MW-11, and TDS in MW-11 was discontinued per the FDEP's Year 2, Quarter 3 PARM Report review letter dated June 8, 2010 (**Attachment B**).
- Analysis of BTEX and MTBE for MW-1 and MW-11 was discontinued per an electronic mail correspondence with the FDEP on June 16, 2010 (**Attachment C**).

Well purging and groundwater sampling activities were conducted in accordance with the FDEP's Standard Operating Procedures (SOP) *DEP SOP-001/01, FS 2200, Groundwater Sampling*, revised March 31, 2008, (effective December 3, 2008), and FDEP *SOP-PCS-005 Groundwater Sampling Standard Operating Procedure Variances and Clarifications for Bureau of Petroleum Storage System Sites*, May 2, 2005. A variable-speed peristaltic pump and clean polyethylene tubing were used for purging and sampling activities. An electronic water quality meter was used to track water quality parameters during purging activities. FDEP groundwater sampling logs were used to document well purging time, volume, and rates; depth to groundwater; monitored water quality parameters (hydrogen-ion concentration [pH], temperature, conductivity, dissolved oxygen [DO], turbidity, color, and odor); and sampling data for each well. The intrinsic parameters measured during groundwater sampling meet the guidelines outlined in the FDEP's SOP.

Laboratory analytical results of the groundwater samples collected indicated that the MTBE concentrations were above the Groundwater Cleanup Target Level (GCTL) in wells MW-8D and MW-20D. The additional analytes collected were above the GCTL for TDS in MW-1 and MW-8D, as observed previously. Groundwater analytical results are summarized in **Table 1** and presented on **Figure 2** for the deep aquifer. Copies of the laboratory analytical report, chain-of-custody record, FDEP groundwater sampling logs, and calibration sheet are in **Attachment D**.

Prior to the groundwater sampling event, depth-to-water from top-of-casing measurements were recorded from the wells sampled. A groundwater elevation table is provided as **Table 2** and groundwater elevations are shown on **Figure 3** for the deep aquifer for the September 16, 2010, sampling event. A table summarizing DO and pH readings is provided as **Table 3**.

Conclusions and Recommendations

The sampling results of the year 3, quarter 1 PARM sampling period indicate residual concentrations of MTBE decreased, but continue to persist in the deep aquifer monitor wells MW-8D and MW-20D above the GCTL. Shaw recommends continuing PARM for this facility restoration. The next sampling event will occur in December 2010, and a report will be submitted within 60 days of the event.

For monitor well MW-8D, the TDS concentration has been above the GCTL since the December 2009 sampling event, although previously TDS has not been monitored at this location. The dissolved sulfate concentration for MW-8D was above the GCTL for the March 2010 sampling event, but has remained below the GCTL for subsequent events. Due to the absence of TDS background data at MW-8D, Shaw proposes additional quarterly monitoring events for MW-8D to further evaluate site conditions and

Ms. Leslie Pedigo
November 11, 2010
Page 3

determine a prudent course at this facility, and discontinuing analysis for sulfate because it has been below the GCTL for two events. For monitor well MW-1, Shaw proposes to continue quarterly sampling for TDS.

Disclaimer

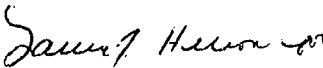
The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client, the county, and the FDEP, unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, county, FDEP, purposes, locations, timeframes, and project parameters indicated. Shaw is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. Shaw does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

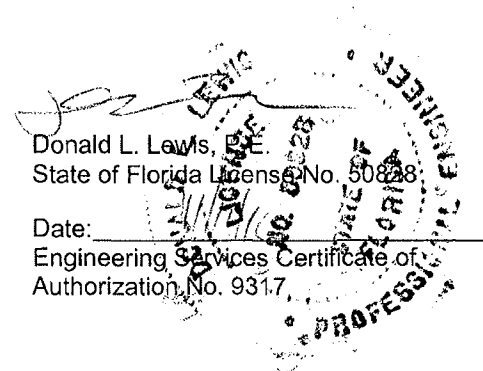
Shaw appreciates the FDEP's assistance with this matter. In the event revisions or clarifications are necessary that can be addressed via e-mail to accelerate and streamline the schedule for this project, please e-mail Donald Lewis at Donald.L.Lewis@shawgrp.com. If you have any questions or require further information, please contact Donald Lewis at (813) 612-3653.

Sincerely,

Shaw Environmental, Inc.



Robert A. Bates, P.E.
Project Engineer




- Attachments: Tables
Figures
Attachment A—FDEP's PARM Plan Approval Order dated October 23, 2009
Attachment B—FDEP's Year 2, Quarter 3 PARM Report Review Letter dated June 8, 2010
Attachment C—FDEP's Electronic Mail dated June 16, 2010
Attachment D—Laboratory Analytical Report, Chain-of-Custody Record, FDEP Groundwater Sampling Logs, and Calibration Sheet

cc: Ken Hilliard, 7-Eleven, Inc. (.pdf)
Jack Reynolds, Shaw, Irving, TX
Shaw/7-Eleven Portal
Tampa Project File

DRAWN	DATE	CHECKED BY	APPROVED BY
BY	7-15-10		
DRAWING NUMBER 138354-B6			



LEGEND:
 MONITORING WELL LOCATION

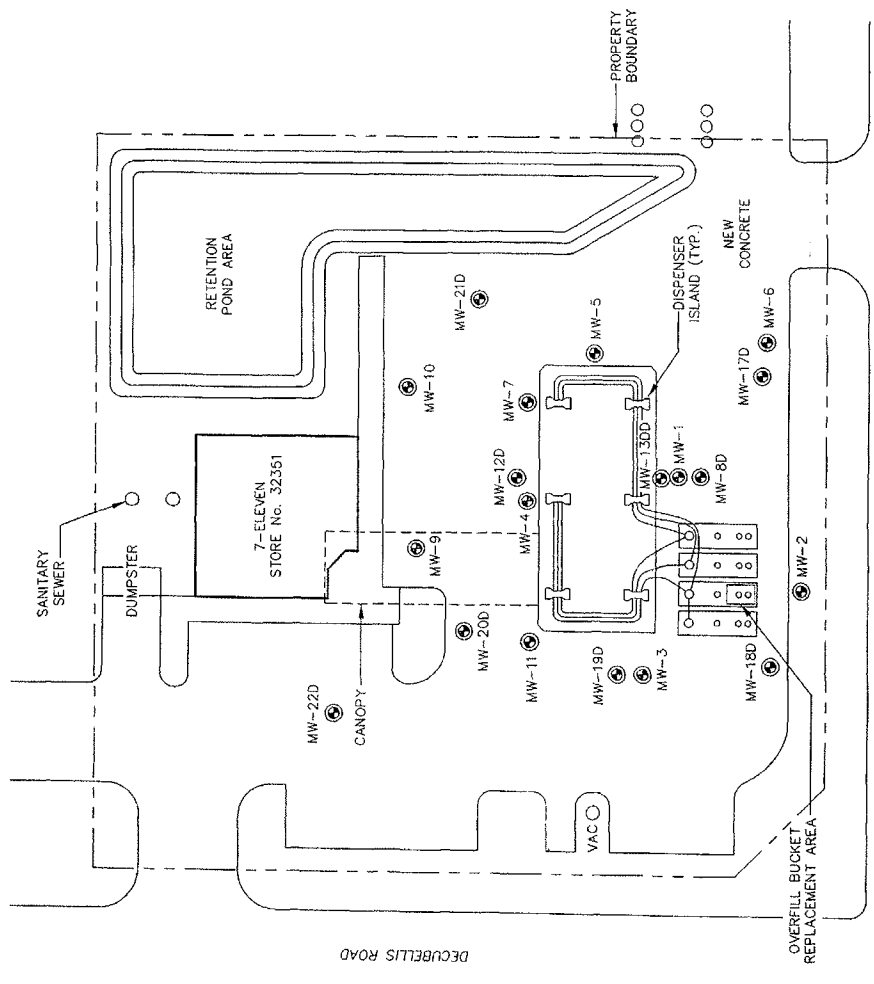


FIGURE I
 SITE MAP
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA
 PREPARED FOR
 7-ELEVEN, INC.
 DALLAS, TEXAS



DRAWN BY SDJF 11-9-10 CHECKED BY APPROVED BY NUMBER 138354-B10



LEGEND:

- MONITORING WELL LOCATION
- BENZENE CONCENTRATION (ug/L)
- TOLUENE CONCENTRATION (ug/L)
- ETHYLBENZENE CONCENTRATION (ug/L)
- TOTAL XYLENES CONCENTRATION (ug/L)
- MTBE CONCENTRATION (ug/L)
- GROUNDWATER CLEANUP TARGET LEVEL CONTOUR
- ANALYTE BELOW METHOD DETECTION LIMIT

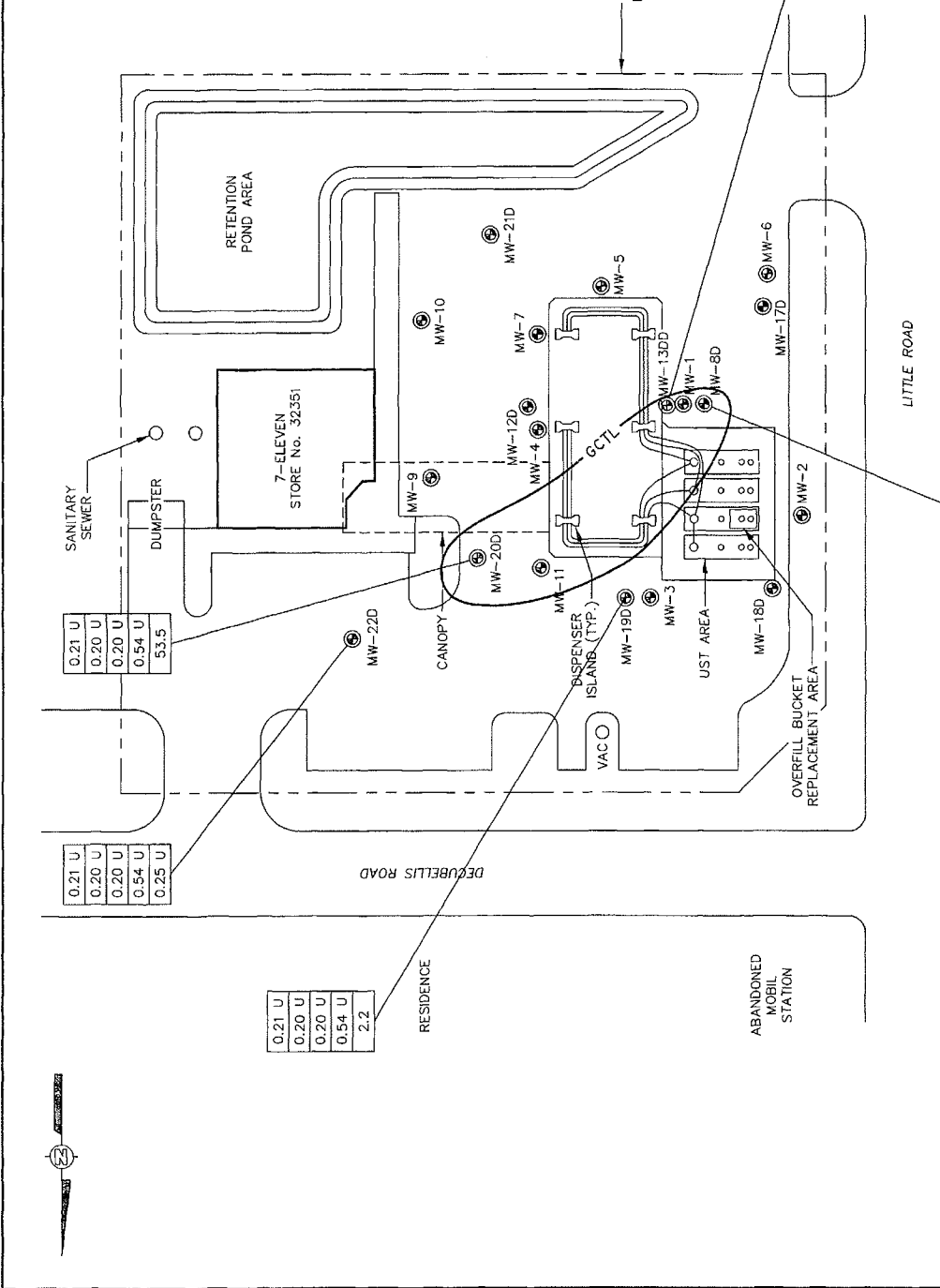


FIGURE 2
GROUNDWATER QUALITY IN
THE FLORIDAN AQUIFER
SEPTEMBER 16, 2010
 7-ELEVEN STORE NO. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 DALLAS, TEXAS



0.21 U
0.20 U
0.20 U
0.54 U
53.5

0.21 U
0.20 U
0.20 U
0.54 U
0.25 U

0.21 U
0.20 U
0.20 U
0.54 U
2.2

0.21 U
0.20 U
0.20 U
0.54 U
7.8

0.21 U
0.20 U
0.20 U
0.54 U
60.8



UNDEVELOPED

GAS KWIK MART

STRIP CENTER

LITTLE ROAD

DEARBELLIS ROAD

RETENTION POND AREA

7-ELEVEN STORE NO. 32351

SANITARY SEWER

DUMPSTER

CANOPY

BUSPENSER ISLAND (TYP.)

VAC

UST AREA

OVERFILL BUCKET REPLACEMENT AREA

ABANDONED MOBIL STATION

RESIDENCE

PROPERTY BOUNDARY

DRAWN	138354-B9
CHECKED BY	
APPROVED BY	
DATE	11-9-10
BY	



LEGEND:

	MONITORING WELL LOCATION
	GROUNDWATER ELEVATION (FEET)
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION
	DATA NOT USED TO DETERMINE CONTOURS

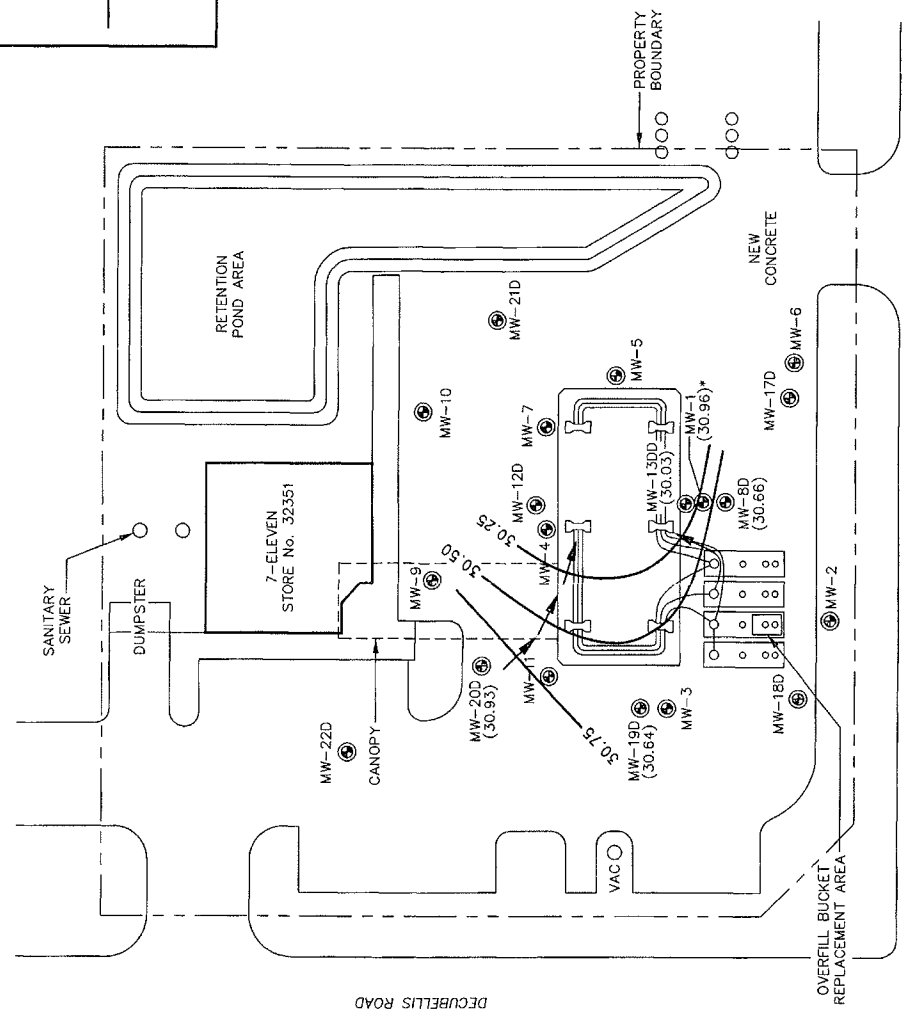
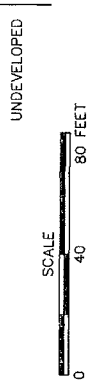


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP IN THE FLORIDAN AQUIFER
 SEPTEMBER 16, 2010
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 DALLAS, TEXAS



UNDEVELOPED
 GAS KWIK MART
 STRIP CENTER



Memorandum

Florida Department of
Environmental Protection

ENFORCEMENT/COMPLIANCE COVER MEMO

TO: PLW 10.23.09 Deborah A. Getzoff, District Director
FROM/THROUGH: WLR Bill Kutash, Waste Program Administrator
LC Laurel Culbreth, Environmental Manager
LP Leslie Pedigo, Environmental Specialist

DATE: October 16, 2009

FILE NAME: 7-ELEVEN STORE #32351 **FDEP ID#** 51/9800607

PROGRAM: SWD/WASTE MANAGEMENT/STORAGE TANKS **COUNTY:** PASCO

TYPE OF DOCUMENT:

- POST ACTIVE REMEDIATION MONITORING PLAN APPROVAL ORDER
- REMEDIAL ACTION APPROVAL ORDER
- SITE REHABILITATION COMPLETION ORDER

HISTORY OF CLEANUP ACTIVITIES:

CONTAMINATION DISCOVERED 12/1/03
SAR SUBMITTED 7/9/04
SARA I SUBMITTED 11/16/04
SARA II SUBMITTED 3/17/05
SASA III SUBMITTED 10/21/05
SAR APPROVED 11/16/05
RAP SUBMITTED 2/16/06
QUARTERLY REMEDIATION REPORTS 5/17/07 THROUGH 8/12/09



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

October 23, 2009

CERTIFIED MAIL #7008 3230 0002 7195 3013
RETURN RECEIPT REQUESTED

Mr. Ken Hilliard
7-Eleven, Inc.
P.O. Box 711 (Loc. 0148)
Dallas, Texas 75221

Subject: Post Active Remediation Monitoring Plan Approval
7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607
Discharge Date: December 1, 2003

Dear Mr. Hilliard:

Ian Tiang of the Bureau of Petroleum Storage Systems, Petroleum Cleanup Section 5, has reviewed the Year 1 Annual Post Active Remediation Monitoring (PARM) Report dated August 11, 2009 (received August 12, 2009), prepared and submitted by Shaw Environmental, Inc., for the petroleum product discharge referenced above. Pursuant to Paragraph 62-770.750(3)(a), Florida Administrative Code (F.A.C.), the Florida Department of Environmental Protection (Department) approves the PARM Plan. Pursuant to Subsection 62-770.750(5), F.A.C., you are required to complete the monitoring program outlined below. The first sampling event must be performed within 60 days of receipt of this Post Active Remediation Monitoring Plan Approval Order (Order). Water-level measurements must be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody record form, cumulative summary tables as required by Subparagraph 62-770.600(8)(a)25., F.A.C. (updated as applicable), site map(s) that illustrate the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), must be submitted to the Southwest District within 60 days of sample collection.

The monitoring wells to be sampled, the sampling parameters, and the sampling frequency are as follows:

<u>Monitoring Wells</u>	<u>Contaminants of Concern</u>	<u>Frequency</u>
MW-1, MW-8D, MW-11, MW-13DD, MW-19D, MW-20D and MW-22D	BTEX and MTBE	Quarterly

Persons affected by this Order have the following options:

- (A) If you choose to accept the Department's decision regarding the Year 1 Annual PARM Report you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.
- (B) If you choose to challenge the decision, you may do the following:
 - (1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or
 - (2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to Subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from 7-Eleven, Inc., shall mail a copy of the request to 7-Eleven, Inc., at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from 7-Eleven, Inc., shall mail a copy of the petition to 7-Eleven, Inc., at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S. and Rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
- (b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
- (c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

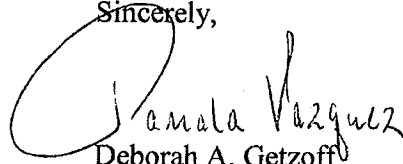
Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Questions

Any questions regarding the Department's review of your Year 1 Annual PARM Report should be directed to Leslie Pedigo at (813) 632-7600, ext. 427 or Ian Tiang at (850)222-6446, ext. 257. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

The FDEP Facility Number for this facility is 51/9800607. Please use this identification on all future correspondence with the Department.

Sincerely,



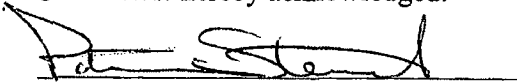
Deborah A. Getzoff
District Director
Southwest District

DAG/lelp

cc: David Peterson, 7-Eleven, Inc.
Donald Lewis, Shaw Environmental, Inc.
Ken Weber, Southwest Florida Water Management District
Danny Harris, Pasco County Health Department
Ian Tiang, FDEP-BPSS, Petroleum Cleanup Section 5
File

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to
§120.52 Florida Statutes, with the
designated Department Clerk, receipt
of which is hereby acknowledged.



Clerk

10-23-09
Date

Florida Department of
Environmental Protection

Memorandum

To: Leslie Pedigo, District Project Manager
Southwest District Tanks Program
13051 North Telecom Parkway, Temple Terrace, Florida 33637

Through: Tom Conrardy, P.E. Administrator *TC*
Bureau of Petroleum Storage Systems (BPSS)
Petroleum Cleanup Section (PCS) 3

Through: Diane Pickett, P.G., Environmental Manager *DP*
BPSS – PCS 5

From: Ian Tiang, P.E., WRScompass Project Engineer *IT*
BPSS – PCS 5

Date: October 1, 2009

Subject: Technical Review Determination – Year 1 Annual Post Active Remediation
Monitoring (PARM) Report
7-Eleven Store No. 32351 (DRF#1: 12/01/2003)
6926 Little Road
New Port Richey, Pasco County, Florida (RAP Approval Order: 6/23/06)
FDEP Facility ID # 51/9800607 (TDR # 30902)

Dept. of Environmental Protection
OCT 09 2009
Southwest District

I have reviewed the Year 1 Annual PARM Report dated August 11, 2009 (received by the Southwest District on August 12, 2009, and by the BPSS in Tallahassee on August 17, 2009). The report was prepared and submitted by Shaw Environmental, Inc.

The document provides a summary of the activities conducted associated with the chemical application of On Contact Process product, well installation of MW-22D, and subsequent groundwater samplings. Chemical application of On Contact Process was initiated on February 11, 2009 in which 2,500 gallons of oxidizer and 800 gallons of catalyst were distributed into six injection points IP-1 through IP6. MW-22D was installed on April 30, 2009 to delineate the extent of MTBE contamination in the northeast corner of the source property. Groundwater samplings were performed on March 18 and June 19, 2009. On both occasions, samples were collected from monitoring wells MW-1, MW-8D, MW-11, MW-13DD, MW-19D, and MW-20D. The samples collected were analyzed for BTEX and MTBE. Groundwater sample was also collected from MW-22D during the June 19, 2009 sampling event for BTEX and MTBE analysis. According to the results, MTBE was the only constituent detected at levels exceeding the GCTL, but below the NADC in monitoring wells MW-8D and MW-20D. Shaw recommends continuing with the PARM sampling and the addition of MW-22D to the groundwater sampling plan.

The proposal to continue quarterly PARM sampling including the addition of MW-22D to the existing monitoring plan is acceptable. However, Shaw should be made aware that future samples collected from monitoring wells MW-1, MW-8D and MW-11 should also be analyzed for iron, sulfate, and total dissolved solids (TDS) in order to satisfy the UIC monitoring requirements.

"More Protection, Less Process"
Visit Our Internet Site At: www.dep.state.fl.us/waste/

Leslie Pedigo, District Project Manager
FDEP Facility ID# 51/9800607
October 1, 2009
Page two

Based on my review, I recommend approval of the report by the FDEP and issuance of a Monitoring Only Approval Order to formalize the PARM strategy as outlined below:

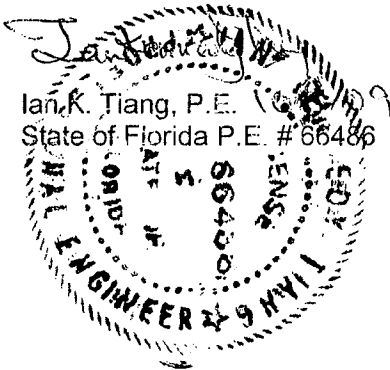
<u>Monitoring Wells</u>	<u>Contaminants of Concern</u>	<u>Frequency</u>
MW-1, MW-8D, MW-11, MW-13DD, MW-19D, MW-20D, and MW-22D	BTEX and MTBE	Quarterly

MW-1, MW-8D, and MW-11	Iron, Sulfate, and Total Dissolved Solids	Quarterly
------------------------	---	-----------

Monitoring of iron, sulfate and TDS can be discontinued after meeting the GCTLs, or naturally occurring levels, for two consecutive quarters.

I should also mention at this time that per the approved variance, the groundwater standards for iron, sulfate, pH, and TDS must be met within 365 days of the application and in this case by February 11, 2010. After which, if the concentrations continue to persist at levels above their respective standards, a RAPMOD must be submitted.

If you have any questions, please call me at (850) 222-6446, ext# 257, or e-mail me at itiang@wrscompass.com.





Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

June 20, 2008

Mr. Ken Hilliard
7-Eleven, Inc.
P.O. Box 711 (Loc. 0148)
Dallas, Texas 75221

**Re: 7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607
Discharge Date: December 1, 2003**

Dear Mr. Hilliard:

Ian Tiang of the Bureau of Petroleum Storage Systems, Petroleum Cleanup Section 5, has reviewed the Remedial Action Year 1 Annual Report, dated April 24, 2008 (received April 29, 2008), prepared and submitted by Shaw Environmental, Inc., for the above referenced facility. The Department finds the report to be acceptable.

The Department does not have any objections with the recommendations to shutdown the SVE system and initiate post active remediation monitoring sampling on a quarterly basis with semi-annual reporting. As such, the Department recommends approval of the report. Additionally, the following comments to be addressed in the future:

- (1) Please summarize the pH measurements collected during the quarterly O&M sampling on sampling logs in a table format. This would be helpful for comparison purposes.
- (2) According to the approved Remedial Action Plan, dated February 15, 2006, "analytical results from a soil sample collected from beneath the replaced overspill bucket (December 2003) indicated soil cleanup target levels [SCTLs]...were exceeded" for benzene and MTBE in the vadose zone. It may necessary to collect confirmatory soil samples during PARM to give the Department the assurance that the soil meets the SCTLs.

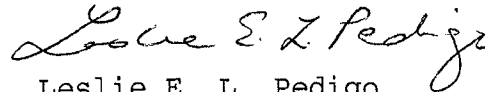
The DEP Facility Number for this site is 519800607. Please use this identification number on all future correspondence with the Department.

Mr. Ken Hilliard, 7-Eleven, Inc.
7-Eleven Store #32351, Facility ID #519800607

June 20, 2008
Page 2

The Department requests that written notification be provided at least three days prior to performing all future sampling events. If you have any questions, please contact me at (813) 632-7600, ext. 427.

Sincerely,



Leslie E. L. Pedigo
Environmental Specialist III
Tanks Program
Division of Waste Management

LP

cc: David Peterson, 7-Eleven, Inc.
Donald Lewis, Shaw Environmental, Inc.
Danny Harris, Pasco County Health Department
Ian Tiang, FDEP-BPSS, Petroleum Cleanup Section 5

JUN 20 2008

Southwest District

Florida Department of
Environmental Protection

Memorandum

To: Leslie Pedigo, District Project Manager
Southwest District Tanks Program
13051 North Telecom Parkway, Temple Terrace, Florida 33637

Through: Tom Conrardy, P.E. Administrator *TC*
Bureau of Petroleum Storage Systems (BPSS)
Petroleum Cleanup Section (PCS) 3

Through: Diane Pickett, P.G., Environmental Manager *DP*
BPSS – PCS 5

From: Ian Tiang, P.E., WRSScompass Project Engineer *IT*
BPSS – PCS 5

Date: June 11, 2008

Subject: Technical Review Determination – Year 1 Annual Remedial Action Status
Operation and Maintenance Report (Annual O&M)
7-Eleven Store No. 32351 (DRF#1: 12/01/2003)
6926 Little Road
New Port Richey, Pasco County, Florida
FDEP Facility ID #51/9800607 (TDR # 29860)

I have reviewed the Y1 Annual O&M report dated April 24, 2008 (received by the Southwest District on April 29, 2008, and by the BPSS in Tallahassee, PCS 3 and PCS 5 on April 29 and 30, 2008, respectively), submitted by Shaw Environmental, Inc.

Based on my review, I do not have any objections with the recommendations to shutdown the SVE system and initiate post active remediation monitoring sampling on a quarterly basis with semi-annual reporting. As such, I recommend approval of the report by the Department. Additionally, I offer the following comments to be addressed in the future:

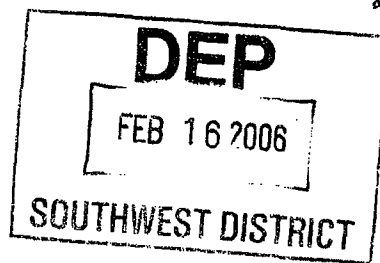
- (1) Please summarize the pH measurements collected during the quarterly O&M sampling on sampling logs in a table format. This would be helpful for comparison purpose.
- (2) According to the approved Remedial Action Plan dated February 15, 2006, "analytical results from a soil sample collected from beneath the replaced overspill bucket (December 2003) indicated soil cleanup target levels [SCTLs]... were exceeded" for benzene and MTBE in the vadose zone. It may necessary to collect confirmatory soil samples during PARM to give the Department the assurance that the soil meets the SCTLs.

If you have any questions, please call me at 850-222-6446, extension 235, or e-mail me at itiang@wrsscompass.com.

Leslie Pedigo
FDEP Facility ID# 51/9800607
June 11, 2008
Page two

Jawend Tiang
6/11/08
Ian K. Tiang, P.E.
Professional Engineer # 56486
WRScopass Project Engineer
Petroleum Cleanup Section 5

28316



03-308

Remedial Action Plan
Non-Program Site
7-Eleven Store No. 32351
6926 Little Road
New Port Richey, Pasco County, Florida
FDEP Facility ID No. 519800607

February 15, 2006

03-308

Prepared for:

Mr. Ken Hilliard
7-Eleven, Inc.
2711 North Haskell Avenue
Dallas, Texas 75204

Submitted to:

Ms. Leslie Pedigo
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Prepared by:

Shaw Environmental, Inc.
725 US Highway 301 South
Tampa, Florida 33619-4349

Project No. 110742-32351000

1.0 Introduction

This Remedial Action Plan (RAP) was prepared by Shaw Environmental, Inc. (Shaw), on behalf of 7-Eleven, Inc., for 7-Eleven Store No. 32351, Florida Department of Environmental Protection (FDEP) Facility ID No. 519800607, located at 6926 Little Road, New Port Richey, Pasco County, Florida. This RAP was prepared in accordance with Chapter 62-770, Florida Administrative Code (FAC) and details a proposed remediation design to reach site closure, as outlined in Chapter 62-770, FAC, at a reasonable cost and within a reasonable timeframe. The facility is a voluntary cleanup site. The Site Assessment Report (SAR) was approved by the FDEP on November 16, 2005.

The recommended remediation system incorporates soil vapor extraction (SVE) and an innovative in situ chemical oxidation (ISCO) process to remediate the impacted soil and groundwater at the site, followed by natural attenuation monitoring (NAM) to reach site closure. Emissions from the vapor extraction system will be treated by vapor-phase carbon and discharged to the atmosphere. Intermittent groundwater accumulated by the SVE system will be treated by liquid-phase carbon then discharged to a small gallery adjacent to the equipment enclosure. The proposed treatment system and remedial approach are designed to volatilize any adsorbed-phase petroleum hydrocarbons and oxidize the dissolved-phase petroleum hydrocarbons to reach site closure levels.

This report is intended to provide the FDEP with sufficient information to support the design basis for the proposed remedial system, provide a detailed description of the proposed remedy, and meet the requirements of Chapter 62-770, FAC. A summary of site conditions is provided in **Section 2**. A discussion of the technology selection is in **Section 3**. **Sections 4** and **5** detail the conceptual ISCO and SVE design and implementation, respectively. **Section 6** presents the implementation cost estimate.

2.0 Site Information

2.1 Facility Location and Description

The 7-Eleven Store No. 32351 facility is a convenience store and retail fuel facility located at 6926 Little Road in New Port Richey, Pasco County, Florida. The property is located in a light commercial area along Little Road, with residential and undeveloped areas surrounding the site. A site location map is included as **Figure 1**. The fuel storage and distribution system consists of four 10,000-gallon underground storage tanks (USTs) containing multiple grades of unleaded gasoline, dispenser islands with multi-grade dispensers, and associated piping. A site layout map is shown on **Figure 2**.

Overspill bucket (OSB) replacement activities that occurred in December 2003 at the regular unleaded gasoline UST (second UST from the north) identified contamination beneath the OSB. The OSB was replaced after it failed a hydrostatic test and approximately 7.2 tons of impacted pea gravel was removed from beneath the OSB. A Limited Closure Summary Report was submitted February 3, 2004, and recommended completion of site assessment. A SAR was completed in accordance with Chapter 62-770, FAC, to define the limits of site impacts. The SAR was approved by FDEP on November 16, 2005.

2.2 Environmental Assessment Summary

2.2.1 Potable Well Survey

Shaw conducted a land use and water well survey around the facility during preparation of the SAR. During the survey, Shaw located three potable wells. No public water wells were located within ½ mile of the facility. Shaw requested a listing of Well Construction Permits issued for wells located within 1 mile of the facility from the Southwest Florida Water Management District. Review of the well report did not reveal any potable wells within a ¼ mile of the facility.

2.2.2 Stratigraphy

Based on the data collected during the site assessment activities, the site is underlain by fine-grained sand from the surface to approximately 18 to 20 feet below land surface (ft bls). The sand is underlain by clayey sand, clay, and weathered limestone layers (from a few to several feet thick) to 69 ft bls.

2.2.3 Unsaturated Zone Contamination

Analytical results from a sample collected beneath the replaced OSB (December 2003) indicated Soil Cleanup Target Levels (SCTLs) listed in Chapter 62-777, FAC, were exceeded. Soil borings completed at temporary well locations and analytical results from the site assessment (February 2005, outside the UST farm) indicated that SCTLs were not exceeded. The soil quality map is included as **Figure 3** and the soil screening and analytical results are in **Table 1**.

The soil impacts are estimated to be 20 feet long by 30 feet wide (elliptical shape) and conservatively estimated to extend to 12 ft bls. The impacted volume is estimated to be 5,700 cubic feet and consists of the pea gravel within the UST area because no soil impacts exceeding SCTLs were identified outside the UST area.

2.2.4 Hydrology

The depth to groundwater has averaged approximately 10 ft bls across the facility during the course of site assessment. The depth to water was recorded at approximately 5 ft bls at the site during one event in October 2004 after several hurricanes caused significant precipitation across central Florida. The direction of groundwater flow in the surficial aquifer is generally towards the northeast and northwest. Groundwater Elevation Contour Maps from January 12, 2006, for the shallow and deep aquifers are depicted on **Figure 4A** and **Figure 4B**, respectively. Historical groundwater elevation data is provided in **Table 2**. Slug testing to determine hydraulic conductivity was completed during the site assessment and indicated an average conductivity of approximately 0.87 feet per day (ft/day) in MW-1, MW-2, and MW-3.

2.2.5 Saturated Zone Contamination

The most recent groundwater sampling event was conducted on January 12 and 13, 2006, to update the data for the RAP. The analytical results indicate MW-1, MW-2, MW-3, MW-4, MW-8D, MW-12D, and MW-20D contain analytes exceeding Groundwater Cleanup Target Levels (GCTLs) or Natural Attenuation Default Concentrations (NADCs) listed in Chapter 62-770, FAC, for one or more petroleum constituents. The most recent sampling results for dissolved concentrations for the shallow and deep zones are shown on **Figure 5** and **Figure 6**, respectively. A summary of historical groundwater analytical data is presented in **Table 3**. The groundwater analytical data, sampling logs, and calibration logs from the January 2006 sampling event are in **Appendix A**. There does not appear to be evidence that underground utilities have enhanced contaminant migration within the right-of-way.

The plume is estimated to be 120 feet long by 105 feet wide and approximately 45 feet deep (elliptical shape). The depth is estimated due to the impacts in the deep well screened 40 to 45 ft bls. A vertical gradient has observed between the shallow and deep wells at the site. The plume volume is estimated to be 610,700 gallons based on a porosity of 0.25.

2.2.6 Contaminant Mass Distribution Estimate

As required by Chapter 62-770.700(3)(d), FAC, the contaminant mass distribution calculations are in **Appendix B**. Based on soil and groundwater analytical results, approximately 610,700 gallons of groundwater and 5,700 cubic feet of soil are estimated to exceed the GCTLs and SCTLs listed in Chapter 62-777, FAC. Overall, the estimated mass of dissolved and adsorbed saturated volatile organic compounds (VOCs) at this site is 754 pounds (lb). Contaminant mass estimates are highly variable and may be different than the actual contaminant mass. The actual volume and mass may be significantly higher or lower than the estimate. The mass calculations were based on the soil analytical results from December 2003 and the groundwater sampling results from January 2006.

2.3 Cleanup Criteria

Shaw recommends active remediation to remove soil impacts to below the SCTLs and reduce the dissolved contaminants to below NADCs, followed by NAM to reach GCTLs across the site and meet the No Further Action criteria of Rule 62-770.680, FAC. This approach is proposed because the site impacts are relatively limited laterally, and in many cases remediation of low-level dissolved impacts can be more cost effectively addressed through NAM than with active remediation. The Cleanup Target Levels (CTLs) and NADCs found in Chapter 62-777, FAC, are provided below for reference.

Groundwater Cleanup Target Levels

Contaminant	GCTLs (Table I)	NADCs (Table V)
	µg/L	µg/L
Benzene	1	100
Ethylbenzene	30	300
Toluene	40	400
Total Xylenes	20	200
MTBE	20	200
Naphthalene	14	140

Notes: µg/L = micrograms per liter

Soil Cleanup Target Levels

Contaminant	Direct Exposure at Residential Sites	Leachability Based on Groundwater Criteria
	mg/kg	mg/kg
Benzene	1.2	0.007
Ethylbenzene	1,500	0.6
Toluene	7,500	0.5
Total Xylenes	130	0.2
MTBE	4,400	0.09
Naphthalene	55	1.2
TRPH	460	340

Notes: mg/kg = milligrams per kilogram

3.0 Technology Selection

Several remedial alternatives were evaluated to determine the most cost-effective site restoration strategy for this facility. Factors evaluated include a conceptual design layout for each technology, remediation assurance and timeframes, net present-worth costs, costs to construct and operate a remediation system, and permitting and maintenance issues. The following remediation technology evaluation is provided as required by Chapter 62-770.700(3)(e), FAC:

Technology Evaluation

	1 Excavation/ Dewatering	2 MPVE	3 AS/SVE	4 SVE with ISCO
Long- and Short-Term Environmental Impacts	Beneficial	Beneficial	Beneficial	Beneficial
Implementability	Low	Moderate	High	High
O&M Requirements	None	High	Medium	Low
Cleanup Assurance/Reliability	High	Moderate	High	High
Estimated Time to Achieve Cleanup	Short	Medium	Medium	Medium
Feasibility	No	Yes	Yes	Yes
Total Estimated Costs	High	High	High	Medium

3.1 Remedy Selection

SVE has been selected as the technique to remediate the vadose zone impacts at the site. SVE will be an effective approach to remove the residual soil vapors through air movement and decreased subsurface pressure (increased volatilization). With Shaw's experience operating SVE systems throughout the state, pilot testing is not proposed or considered necessary. Experience will be utilized to develop reasonable estimates of the operational parameters and design criteria for the system.

Chemical oxidation has been selected to address the dissolved impacts at the site. An innovative technology has been chosen for site restoration based on several factors such as plume size and limits, contaminant concentrations, and payment at cleanup milestones during active remediation. The proposed product is a proprietary ISCO product manufactured by Environmental Remediation and Financial Services, LLC (ERFS). The reagents and injection techniques are accepted by the FDEP as an innovative technology under the name On-Contact Process and, therefore, the RAP approval will fulfill all the regulatory approvals necessary to utilize this product. The FDEP approval documentation and ERFS proposal for site remediation are in **Appendix C**.

The On-Contact Process is a proprietary ISCO process suitable for remediation of petroleum range organic contaminants in soil and groundwater. It involves the injection of oxidants, reducing agents, and food-grade additives into the contaminated media. The ultimate byproducts of the oxidation reactions are carbon dioxide and water when petroleum hydrocarbons are treated. The process will be used to address the dissolved-phase contamination for this project. The vadose zone will be treated by SVE as noted above.

The On-Contact Process is implemented in the following four steps, as detailed in the ERFS proposal. The first stage involves creating subsurface fractures, referred to as propagations, to allow the application of reagents into the subsurface. The average propagation thickness is estimated to be 2 centimeters and

can be up to 120 feet across. The second stage (preparation stage) utilizes low volumes of emulsifiers, co-solvents, and/or surfactants to prepare the subsurface, enhance the chemical remediation process, and minimize rebound from adhered contaminants. The third stage (conversion) is the oxidation process to convert contaminants to the remediation endpoints of carbon dioxide and water. The fourth stage (restoration) is performed at the completion of the remediation to return to subsurface conditions (hydrogen-ion concentration [pH], dissolved oxygen [DO], etc.) back to pre-remedial conditions. Throughout the process, subsurface electronic monitors are utilized to monitor conditions and movement of remedial fluids. The four steps are further discussed in the ERFS proposal (**Appendix C**).

The site lithology below 20 ft bls, consisting primarily of sandy clays and clays, can be somewhat more difficult to remediate because the clays can desorb adsorbed contaminants when the dissolved impacts are treated. Therefore, the approach will use multiple injection events to achieve the desired results of the remedial effort. When soil impacts are removed and groundwater concentrations are reduced to below NADCs, NAM will be considered for the remainder of site restoration.

4.0 Design

4.1 In Situ Chemical Oxidation System Design

4.1.1 Injection Wells

The proposed remedial design will include injection of the On-Contact Process reagents across the impacted zone from 10 to 50 ft bls through vertical injection wells (IWs). The injection interval targets the impacted zone and is anticipated to treat a few feet above and below the injection interval due to migration of the injected fluids. The estimated area of treatment is 105 feet wide by 120 feet long and encompasses an area from the south end of the USTs to the east side of the dispensers (**Figure 7**).

ERFS reviewed the site conditions and historical assessment data, and provided the locations and construction specifications for the IWs. Six IWs are proposed to address the treatment zone and apply the reagents across the impacted interval. The IWs will be 2-inch-inside-diameter (ID) wellpoints installed by hollow-stem auger (HSA) drilling methods. The screened interval is proposed from 10 to 50 ft bls at all locations to place the screen across the entire impacted zone. **Figure 7** presents the IW layout based on the locations specified by ERFS. The 4.25-inch-ID HSA will create an 8.25-inch borehole for the injection well installation. The IWs will have a 40-foot section of 0.010-inch slotted, polyvinyl chloride (PVC) screen with a 20/30 sand pack and fine sand seal. With the depth of injection, it is not anticipated the injected fluids will come in contact with any underground site utility lines. The bottom couple of feet of the USTs are anticipated to come in contact with the reagents, however the USTs are polyurethane-coated steel and the polyurethane will protect the metal from contact with the oxidants. **Figure 8** illustrates the construction details for the IWs.

The injection activities will be the responsibility of ERFS and the injection rate realized will dictate the duration for each event. Injection calculations were prepared utilizing the average hydraulic conductivity value from the SAR to estimate the injection rate for each IW. Utilizing the average conductivity value 0.87 ft/day (6.5 gallons per day per square foot), a 20-foot radius-of-influence, and mounding the injection wellhead to 2 feet above the water table, an injection rate of 0.37 gallon per minute (gpm) is estimated per IW. The actual injection rate for the zone is anticipated to be larger than the estimate due to higher conductivity layers within the injection interval and the ability to increase injection pressure during

application. It is anticipated that each IW will accept approximately 1 to 1.5 gallons per well (6 to 9 gpm total) at pressures up to 10 pounds per square inch. The injection calculations are in **Appendix D**.

4.1.2 Chemical Oxidation Injection System and Process

Reagents are received on site in bulk containers; dry materials in 50-lb bags and liquids in 55-gallon drums. Reagents are blended by ERFs staff in graduated poly mixing tanks, which feed to a chemical delivery pump. The delivery pump will transfer reagents from the tank via flexible hoses to the injection points (IWs described above). The preferred delivery method is gravity-feed to the injection points. The IWs are fitted with wellheads that have flow control and check valves as well as bleed-off ports and pressure relief valves that are directed to fixed containers. Liquids that are bled off of injection points are then re-injected at the end of the treatment. Estimated volumes and concentrations of reagents are provided below for each treatment event. ERFs estimates that from three to six treatment events may be needed to achieve project goals. Each treatment event is expected to require approximately 3 days to 1 week on site to complete. Treatment events will be separated by approximately 2- to 6-week stabilization periods. At the flow rates described above and the volumes listed below, the reagent concentration in groundwater rapidly diminishes to less than 1% when mixed in surrounding materials.

The chemical quantities anticipated per injection are:

- Ferrous sulfate – From 35 to 100 gallons of 1% to 10% aqueous solution per injection point.
- Phosphoric Acid – From 35 to 100 gallons of 1% to 5% aqueous solution per injection point.
- Hydrogen Peroxide – From 50 to 250 gallons of 3% to 18% aqueous solution per injection point.

Of these chemicals, most degrade or disperse harmlessly into the surrounding environment. The ferrous sulfate dissolves with the aid of the phosphoric acid and exists as a dilute dissolved salt at a concentration of less than 0.5%. The phosphoric acid degrades and exists as a disassociated mineral acid at a concentration of less than 0.1%. The hydrogen peroxide decays rapidly in the presence of iron forming hydroxyl radicals, oxygen, and water. Hydroxyl radicals interact with organic contaminants and produce carbon dioxide and water. During injection, the water source will be from an onsite spigot.

4.2 Soil Vapor Extraction System Design

4.2.1 SVE System

SVE wells are proposed to remediate the vadose zone impacts at the site. With the site depth to water (approximately 10 ft bls), vertical wells are proposed rather than laterals. The depth and location of the wells are based upon the soil impacts (in the UST area) and a predicted zone-of-influence of the SVE wells when operating.

The vapor extraction network has been designed with a zone-of-influence of 20 feet based upon operational experience at other sites with sandy lithologies. With a zone-of-influence of 20 feet, six vapor extraction wells (VEWs) are proposed to remediate the soil impacts within the USTs farm. The proposed VEW system layout depicting wells and zones-of-influence is shown on **Figure 9**.

The VEWs will be installed to approximately 8 ft bls and constructed with a 2-inch-diameter, 0.020-inch slotted, Schedule 40 PVC screen length of 5 feet (3 to 8 ft bls). VEW construction details are illustrated on **Figure 8**. Each VEW will be individually piped with 2-inch-diameter Schedule 40 PVC to the SVE manifold located at the equipment enclosure. To permit flow adjustment at the equipment enclosure,

each SVE lateral will be equipped with a ball valve, a flow rate meter connection point, and vacuum gauge connection point. The SVE manifold will be constructed with a 2-inch-diameter, Schedule 40 PVC pipe. The proposed SVE system trenching layout and trench cross-section details are presented on **Figure 10** and the Process and Instrumentation Diagram is on **Figure 11**.

It is expected that the concrete surface of the facility will provide an adequate seal for vacuum extraction and minimize short-circuiting. With the proposed extraction depth (3 to 8 ft bls) it is not anticipated that the existing landscaped areas south of the VEWs will cause significant short-circuiting during system operation. However, in the event vacuum levels are not maintained during system operation, sealing the landscaped areas or revising the system operational parameters will be completed.

Vapor recovery from the VEWs was modeled using minimum, design, and maximum soil permeability values (Darcy) and a target wellhead vacuum to estimate the flow rate during system operation. The soil permeability was estimated based on sites with similar lithology and minimum, design, and maximum Darcy values of 5, 10, and 15, respectively, were used. A design wellhead vacuum level of 30 inches of water column (in-WC) was used based on experience. With a design soil permeability value of 10 Darcy, the VEWs should generate 15.8 standard cubic feet per minute (scfm) from each 5-foot VEW (3.3 scfm per foot of screen) for a combined flow rate of approximately 95 scfm. The flow rate is consistent with design and actual conditions observed at soil venting systems under similar conditions. Calculations are provided in **Appendix D**. Using a 1.2 factor of safety, the extraction blower will be required to generate a minimum of 114 scfm. With the projected flow rates, 2-inch-diameter, Schedule 40 PVC piping will be adequate to connect the wellhead to the equipment trailer without significant friction losses. The estimated headloss from VEW-6 to the emission stack will be 9.9 in-WC. Headloss calculations are also included in **Appendix D**. Including the 1.2 factor of safety applied to the flow rate and the friction losses, the SVE blower will be specified to achieve a minimum of 114 scfm at 45.9 in-WC.

A 5-horsepower, Rotron EN 707 explosion-proof regenerative blower, or the equivalent, will be used for vapor extraction. The blower is capable of 180 scfm at 50 in-WC. A bleed valve will be installed to regulate vapor flow from the SVE network and to ensure vapor concentrations are maintained below 25 percent of the Lower Explosion Limit (LEL), or to reduce vacuum during the wet season in the event excessive water recovery occurs. An inline muffler will be provided at the blower intake to reduce noise. A cyclonic-action air-water separator with a high-vacuum relief valve will be installed prior to the blower inlet to remove water condensate from the air stream. High- and low-level switches will control a transfer pump to remove condensate water. A high-high-level switch will deactivate the SVE system in the event the transfer pump fails. The blower specifications are in **Appendix E**.

4.2.2 Vapor Emissions Treatment

In accordance with Rule 62-770.700(5)(a), FAC, emissions treatment will be provided for a minimum of 30 days. The total hazardous air pollutant emissions will be maintained below 13.7 lb per day. After 30 days of operation, the emissions treatment system will be removed if the influent concentrations indicate that emissions treatment is no longer necessary.

Based on the estimated mass of vadose zone contaminants, carbon adsorption is proposed for vapor treatment. This approach is considered more cost-effective than other vapor treatment techniques. The concentrations are anticipated to decrease rapidly after system activation. Two 170-lb Carbtrol® Model G2 carbon canisters, or the equivalent, with a maximum flow rate of 300 scfm, will be plumbed in

series to the SVE blower discharge. With a 20-percent adsorption capacity assumed due to moisture, humidity, and temperature conditions, the carbon vessel should have the capacity to adsorb 68 lb of petroleum hydrocarbons. With a flow rate of approximately 114 scfm, the empty bed contact time will be 5.12 seconds and the gas-loading rate will be 36.1 scfm per foot squared. The carbon will be replaced, or additional carbon units will be installed if required, to maintain compliance with air emissions criteria. The carbon units will be located outside a small SVE enclosure constructed to house the equipment. Influent and effluent vapor samples at system startup will be used to estimate carbon usage rates and organic vapor screening results will be used to evaluate carbon breakthrough. Carbon canister calculations are in **Appendix D**. The carbon specifications are in **Appendix E**.

An organic vapor analyzer (OVA) equipped with a flame-ionization detector will be used to monitor the air in the breathing and treatment zones during startup activities. If off-gas levels exceed threshold limit values for the contaminants of concern, the vapor extraction flow rates will be decreased to eliminate this occurrence, or to be below the National Institute for Occupational Safety and Health threshold limit values. The system emissions will be closely monitored during system startup.

4.2.3 Groundwater Treatment and Disposal

Condensate from the moisture separator will be treated by carbon adsorption and discharged to a small gallery located adjacent to the compound. Groundwater entrainment is expected to be intermittent during system operation, typically only during periods of heavy rainfall when the moisture percolates through the vadose zone. The applied vacuum will be adjusted to limit groundwater entrainment, if necessary. Therefore, one Carbtrol® L-1, liquid-phase carbon canister, or the equivalent, should be sufficient for groundwater treatment. At 40-percent efficiency, the Model L-1 is capable of removing approximately 80 lb of hydrocarbons. A totalizing flow meter will record the volume of water treated and discharged. The gallery design and calculations are in **Appendix D** and shown on **Figure 10**. Transfer pump and liquid-phase carbon specifications are in **Appendix E**.

4.2.4 Soil Vapor Extraction Equipment

The SVE system vacuum blower, moisture separator, transfer pump, and liquid carbon vessel will be housed within an enclosed container, estimated to be approximately 3 feet wide, 5 feet long, and 4 feet high. A small enclosure unit is being selected to allow location of the system near the treatment points in an area north of the USTs. The system enclosure will include acoustic panels to reduce noise and will be lockable; therefore, no fenced compound is proposed. The final enclosure will resemble a large transformer. The proposed treatment enclosure location is shown on **Figure 9**. The treatment enclosure and manifold details are on **Figure 10**. A Process and Instrumentation Diagram is on **Figure 11**.

4.2.5 Control Panel and Equipment Purchase

The SVE system will be operated by a small control panel to activate and deactivate all equipment. The control panel (lockable) will be mounted to the exterior of the treatment system enclosure. All motors will be controlled by hand-off-auto selector switches and will include run light indicators, ammeters, and hour meters. Fail-safe controls will include SVE blower deactivation in the event the high-high level is reached in the moisture separator. All fail-safe conditions will have alarm lights on the panel. No remote monitoring is being included on the system at this time because the dedicated components are only a small SVE system.

The entire remedial system will be Underwriters Laboratory-approved as a package unit and supplied with the standard equipment manufacturer's warranty. The warranty is typically 12 months in duration and will be provided from each manufacturer with the bids that are provided with the bid package portion of the project.

4.3 Remediation System Cleanup Time

The mass removal rates have been estimated based on sites with similar contaminant levels, soil lithologies, and Shaw's experience. With the remedial design, it is expected that the SVE system will remediate the vadose zone soils within 6 to 12 months from startup based on SVE influent concentrations. Three to six injection events are estimated to be necessary to reach NADCs in a 12- to 18-month period. Subsequently, NAM can be considered for the remainder of site restoration. The NAM period of up to 3 years is estimated to reach CTLs across the site.

5.0 Implementation

Prior to RAP implementation, bid solicitations for equipment vendors, electrical subcontractors, and drilling subcontractors will be completed. Following completion of the bid solicitation process and RAP approval, SVE system installation and the injection event(s) will occur.

5.1 Construction

5.1.1 Construction Plan and Schedule

All state and local construction permits (drilling, electrical, construction) will be obtained prior to initiation of construction activities. No environmental permits are anticipated to be required for the remedial system installation and operation. Utility locations will be marked by Sunshine State One-Call of Florida, Inc. prior to the initiation of any subsurface activities.

Construction will begin with the installation of the six IWs and six VEWs. Any derived wastes from the well installations will be screened with an OVA, contained in 55-gallon drums, and sampled to determine the appropriate disposal method, if necessary. All PVC piping will be Schedule 40 PVC, unless otherwise indicated. All connections between PVC materials will be made with solvent-based cement. All connections between PVC materials and hoses will be made with cam locks or hose barbs and hose clamps. SVE system piping will be installed and, prior to backfilling the trenches, the piping will be vacuum- or pressure-tested, as appropriate, and the well vaults will be installed. All piping during the injection event(s) will be aboveground temporary hoses or pipe. Penetrations into the VEW vaults will be sealed with hydraulic cement or Portland cement. The trenches will be backfilled with native stockpiled material from the area it was removed. Any trenches in concrete will be resurfaced with fiber-mesh-reinforced concrete and connected to the existing concrete with dowels. Proper screening, handling, and disposal of any potentially impacted soil will occur during construction, as necessary.

The SVE system enclosure will be installed at the proposed location and leveled on 12-inch-square cement pads. An electrical subcontractor will install the treatment system service pole, power meter, and main disconnect, and provide electrical service to the control panel and equipment. Site power to the vacuum station or overhead lighting may be utilized rather than a new service. This determination will be made during the bidding phase. All equipment will meet appropriate requirements in Series 500 articles of the National Electrical Code and the Class 1, Group D, Division 2 requirements based on the

atmosphere within the enclosure. When the final electrical and building inspections have been approved, the electrical service will be connected, the equipment will be tested, and the SVE system will be brought online. After approximately 30 days of SVE system operation, the chemical injection events will begin.

5.2 SVE System Startup

Prior to SVE system activation, baseline vacuum and depth to water will be collected from select site monitor wells. System startup will include inspections of the electrical connections and testing each piece of equipment for proper rotation. The SVE system will be brought online and vacuum influence, flow rate, and organic vapor readings will be recorded to determine the optimal operating parameters.

All system failsafe alarms will be tested and the system voltages and operating amperage will be recorded and checked to ensure that they are within manufacturer operating specifications. Any manufacturer-recommended startup activities will be completed. It is anticipated that the equipment manufacturer and electrical contractor will be onsite during system startup activities to document system operation. Laboratory vapor samples will be collected during startup after the system is operational and has stabilized. Other operational data will be recorded during startup in accordance with Chapter 62-770(10), FAC, as applicable. The startup period is anticipated to last 2 to 3 days to allow the SVE system to stabilize, test system functions, record operational parameters, and collect startup samples. The SVE system will be deactivated during the injection events to avoid the potential recovery of the injected fluids solution.

5.3 Injection Events and Monitoring

Injection events will be completed by ERFs with oversight by Shaw. As discussed in **Section 4.1.2**, reagents are received on site in bulk containers, dry materials in 50-lb bags and liquids in 55-gallon drums, where they will be blended in graduated poly mixing tanks that feed to the chemical delivery pump. The delivery pump will transfer reagents from the tank flexible hoses to the IWs. ERFs will monitor groundwater parameters (DO, oxidation-reduction potential [ORP], pH, specific conductance, and temperature) and vapor space parameters (oxygen, carbon dioxide, LEL, and photo-ionization detector) before and during each treatment. Shaw will monitor and record flow rates, depth to water, and injection pressures during the injection events to confirm mounding does not exceed 2 feet above the existing water table elevation.

Shaw will collect samples 30 days after the second treatment and quarterly thereafter. The sampling will include organic analyses and field parameters as listed above. Shaw will also collect "underground injection control (UIC) parameters" (sulfates, iron, pH, and total dissolved solids [TDS]) from MW-1 and downgradient well MW-11 prior to injection and quarterly for 1 year following injection completion to meet the UIC requirements. A sampling schedule is presented on **Table 4**.

5.4 Maintenance and Monitoring

Routine operation and maintenance (O&M) will be conducted to optimize and maintain the SVE system during its operational period. The SVE system operating data will be recorded in accordance with Rule 62-770.(10)(i), FAC, and the equipment will be serviced during O&M events. Vacuum and pressure readings, water level readings, and temperatures will be collected from the monitor wells within the zone-of-influence of the remedial system at startup, weekly for the first month, monthly for the next 2 months,

and quarterly thereafter. Vacuum readings will be collected from the nearby monitor wells with screened intervals that intersect the unsaturated zone to confirm the area-of-influence. During the injection events, the SVE system will be deactivated to assure recovery of the injected fluids does not occur.

The SVE system influent will be sampled for analyses by US Environmental Protection Agency (EPA) Method 18 for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and total petroleum hydrocarbons (TPH) at startup, weekly for the remainder of the first month, monthly for the remainder of the first quarter, and quarterly thereafter until two consecutive events indicate that applicable air quality standards are not exceeded, in accordance with Rule 62 770.700(10)(i), FAC. SVE system effluent samples will be collected in conjunction with SVE system influent samples until off-gas treatment is removed.

The entire monitor well network is proposed for sampling prior to SVE system startup and injection to document baseline dissolved concentrations and annually to monitor conditions across the entire site. Wells MW-1, MW-2, MW-3, MW-4, MW-5 MW-8D, MW-12D, MW-17D, and MW19D are proposed to be sampled 30 days after the second injection event and quarterly for the first year. The first annual report will recommend a sampling schedule for the following years of remediation/monitoring. Groundwater samples will be analyzed by EPA Method 8021 for BTEX and MTBE. As noted above and in accordance with the FDEP acceptance letter for the On-Contact Process, MW-1 and MW-11 are proposed to be sampled for sulfate, iron, and TDS by appropriate methods (and pH will be field-recorded during sampling) prior to injection and quarterly thereafter. All sampling will be conducted in accordance with the FDEP's Standard Operating Procedures. The remedial action sampling schedule is in **Table 4**.

Any minor system adjustments will be made within the operational capacities of the equipment specified in this plan. If adjustments to the system prove to be ineffective, or if differing site conditions warrant, the remedial approach will be re-evaluated, modified, and re-implemented after appropriate approval.

5.5 Reporting

Following system installation, startup, and the injection event, a Remedial Action Startup Report with a signed and sealed set of as-built drawings will be provided. An annual O&M report will be submitted to document system performance and site restoration after each year of cleanup. Each annual report will describe the progress of cleanup and contain the following items:

- a brief summary of the progress of the remedial system;
- SVE operating parameters and air emission results;
- estimates of the mass of contaminants removed by the treatment system;
- a summary of the injection events, volumes of reagents injected, and the Injection Summary Form required by the FDEP-approved correspondence;
- tabular and/or graphical analytical results for designated monitor wells;
- groundwater contour maps;
- evaluation of cleanup progress;
- zone-of-influence contour maps;

- recommendation regarding the effectiveness of the remediation system and need for enhancements or modifications, and
- certification by a Professional Engineer licensed in the State of Florida.

In accordance with Shaw's standard health and safety protocol, the site-specific Health and Safety Plan will be modified as necessary. Information in this plan includes emergency hospital and evacuation routes and guidelines for standard site activities such as sampling, monitoring, and various construction operations. A copy of this document will be stored onsite.

6.0 Implementation Cost Estimate

The preliminary cost estimate for the RAP implementation for remedial system acquisition, well and system installation, 1 year of SVE system operation, the injection event(s), 3 years of post-active remedial monitoring, well abandonment, and site closure is \$315,000. Remediation system acquisition and installation includes equipment purchase, installation of six VEWs, disposal of drum wastes, 8 days of construction, 3 days of system startup, and baseline sampling. One year of system operation is estimated at \$35,000, which includes four O&M visits for the first month, monthly O&M visits for the remainder of the first year, quarterly sampling, electrical charges, a Remedial Action Startup Report, and annual O&M reporting. Costs for the injection event(s) include the IWs, reagents, a total of six injection events, oversight, and mobilization and demobilization. Post-remedial monitoring is expected to last 1 year after the remedial system is shut down followed by up to 2 years of NAM. Site closure costs include the proper abandonment of all monitor wells and sparge wells, and a well abandonment report. These costs are estimated based on previous projects of similar nature.

Implementation Cost Estimate

Event	Description	Cost
System Install	Baseline sampling, installation of SVE wells. Construction of SVE system. Purchase and installation of remedial equipment and Startup Report.	\$ 60,000
Active Remediation	Remedial System Operation, O&M, and Sampling (1 year)	\$ 35,000
Injection Event(s)	IWs, chemicals, injection event, oversight	\$ 160,000
Post-Active Remedial Monitoring, NAM	Post-Active Remedial Monitoring (3 years)	\$ 40,000
Site Closure	Abandonment of wells and removal of equipment and compound	\$ 20,000
TOTAL ESTIMATED COST		\$ 315,000

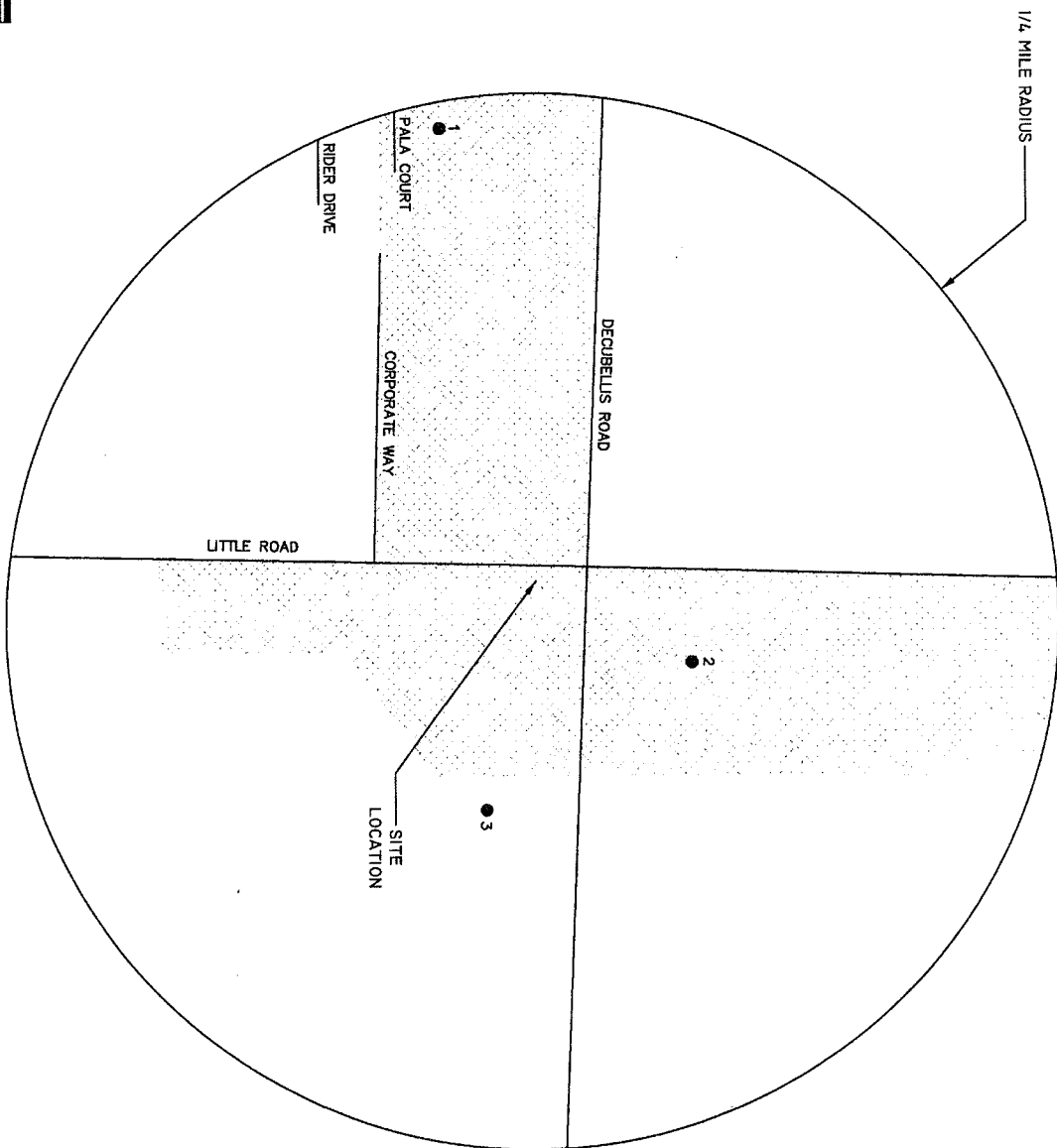
This RAP provides an aggressive approach toward site remediation and an acceptable assurance of reaching site rehabilitation completion at a reasonable cost and within a reasonable timeframe. A RAP Summary Form and RAP Checklist are in **Appendix F**.

7.0 Disclaimer

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information

of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.



1/4 MILE RADIUS

- LEGEND:
- COMMERCIAL PROPERTY
 - UNDEVELOPED PROPERTY
 - WATER WELL LOCATION

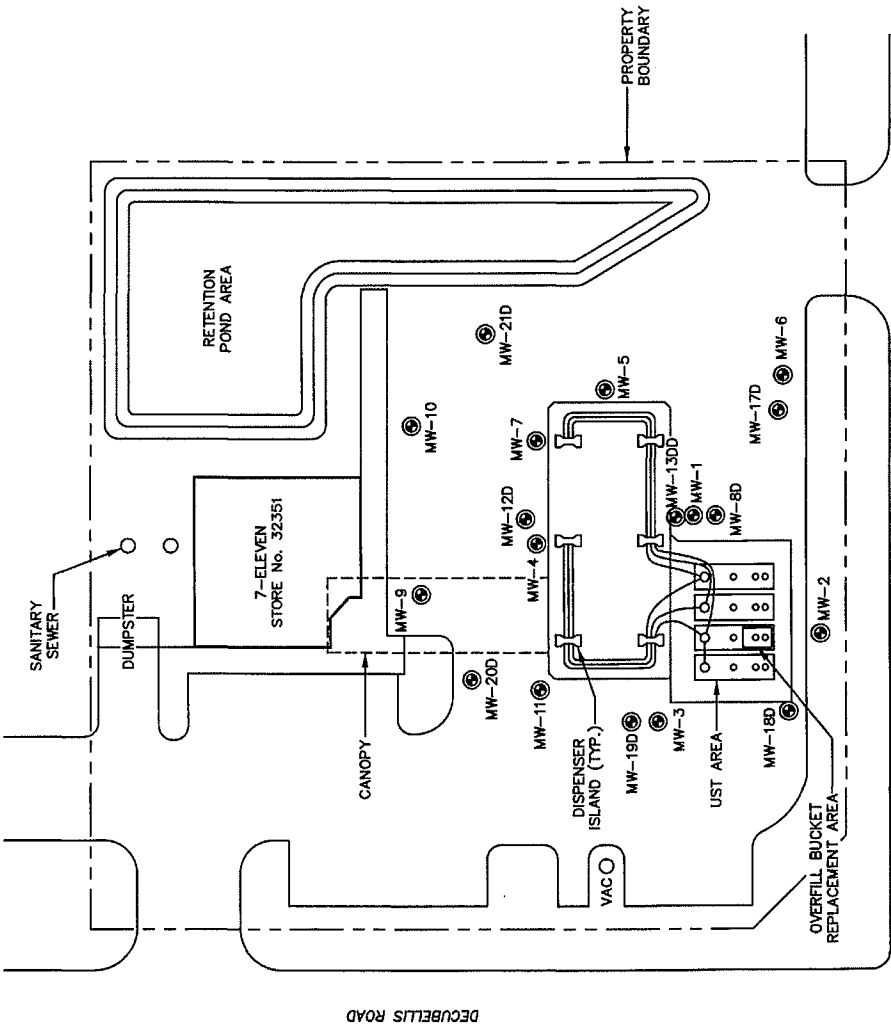
DEP
FEB 16 2006
SOUTHWEST DISTRICT

FIGURE 1

AREA LAND USE MAP
7-ELEVEN STORE NO. 3235I
6926 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
PREPARED FOR
7-ELEVEN, INC.
ORLANDO, FLORIDA



DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 DATE: 2-13-08
 NUMBER: 834355-B786



LEGEND:
 MONITORING WELL LOCATION

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

FIGURE 2

SITE LAYOUT MAP
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW FORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



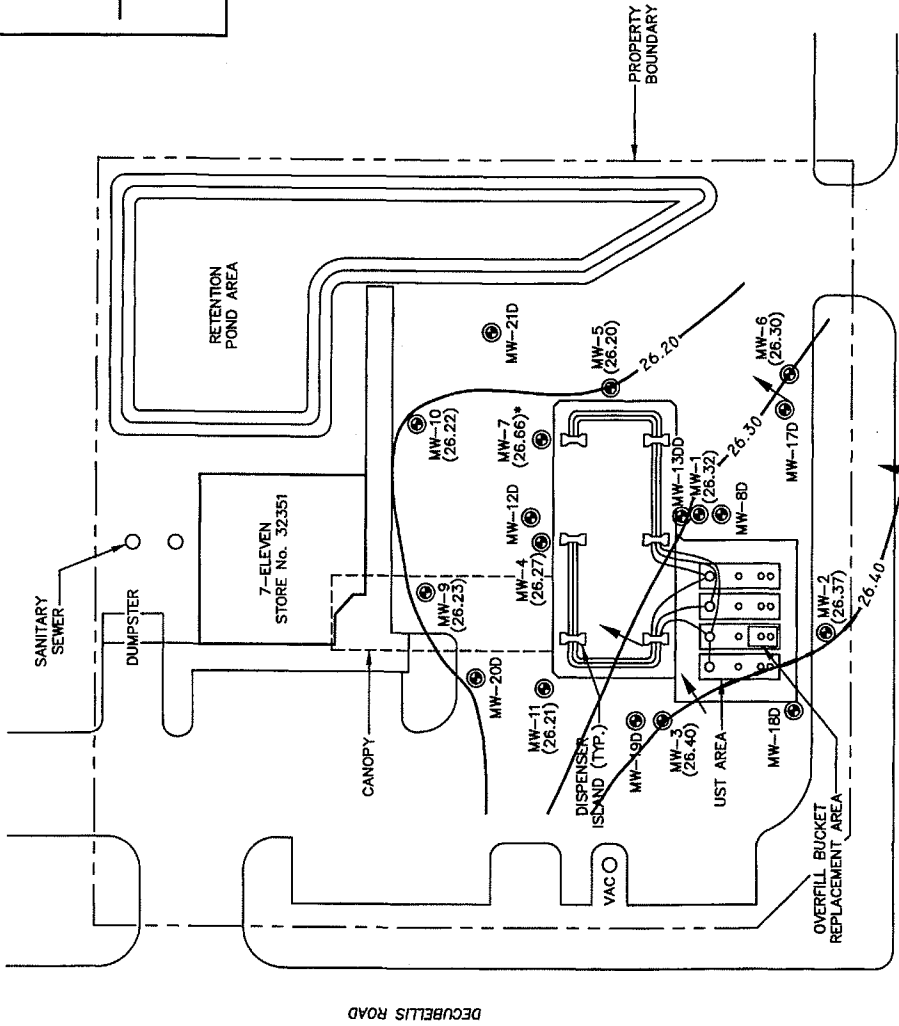
GAS KWIK
 MART

STRIP CENTER

UNDEVELOPED



DRAWN BY: SOF
 CHECKED BY:
 APPROVED BY:
 NUMBER: 834355-B788

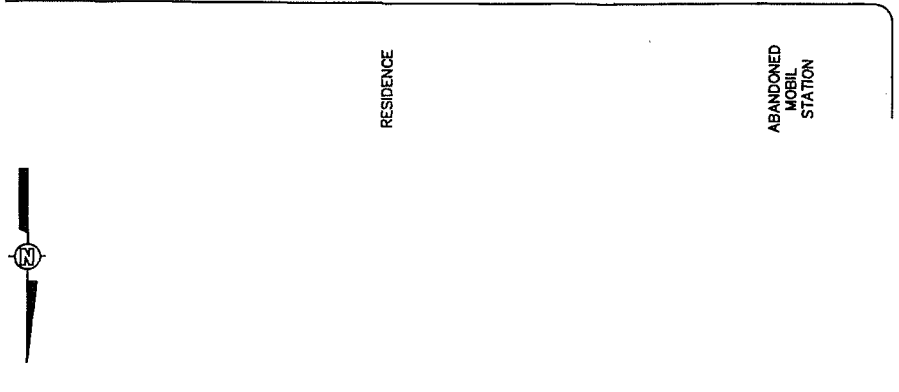


LEGEND:
 ● MONITORING WELL LOCATION
 (26.30) GROUNDWATER ELEVATION (FEET)
 —26.20— GROUNDWATER ELEVATION CONTOUR
 ↑ GROUNDWATER FLOW DIRECTION
 * DATA NOT USED IN DETERMINING GROUNDWATER FLOW

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

FIGURE 4A
 GROUNDWATER ELEVATION
 CONTOUR MAP IN THE
 SURFICIAL AQUIFER
 JANUARY 12, 2006
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

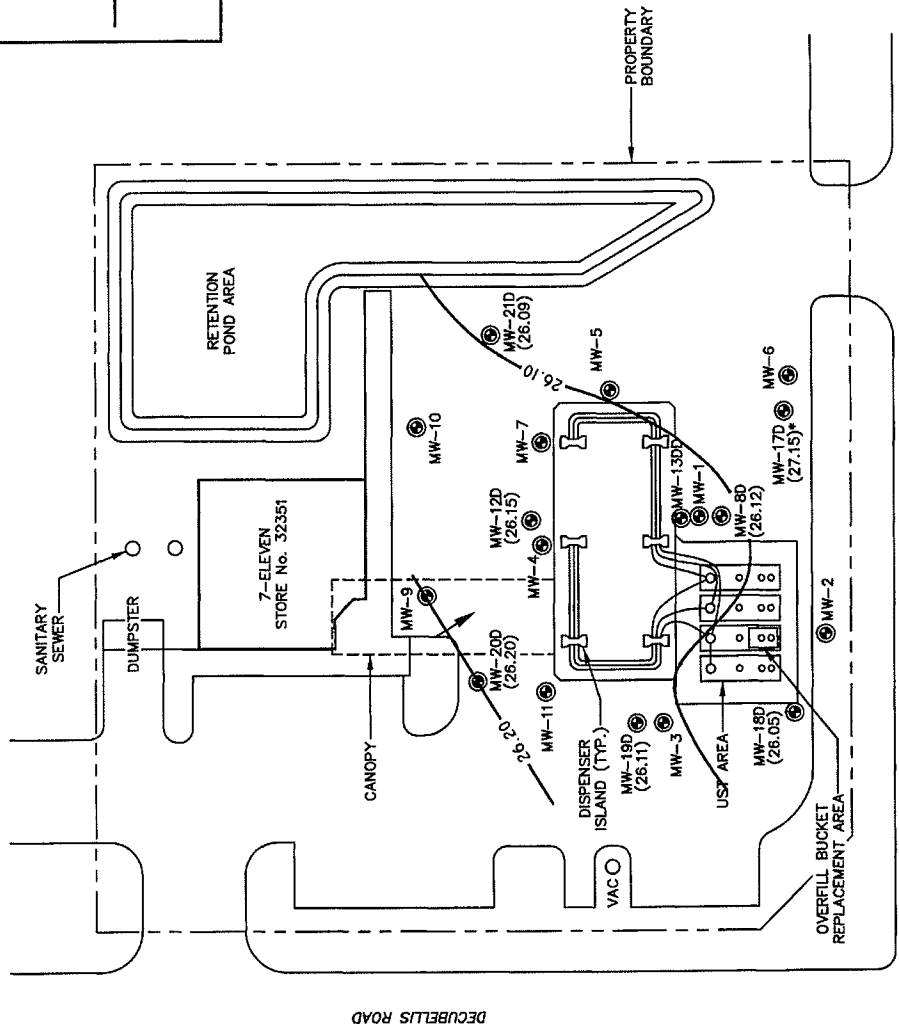
PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



UNDEVELOPED
 GAS KWIK MART
 STRIP CENTER

SCALE
 0 40 80 FEET

DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 DATE: 2-13-06
 DRAWING NUMBER: 834355-B789



LEGEND:
 (26.09) ○ — MONITORING WELL LOCATION
 — 26.20 — GROUNDWATER ELEVATION (FEET)
 ——— GROUNDWATER ELEVATION CONTOUR
 ——— GROUNDWATER FLOW DIRECTION
 * — DATA NOT USED IN DETERMINING GROUNDWATER FLOW

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

FIGURE 4B
 GROUNDWATER ELEVATION
 CONTOUR MAP IN THE
 FLORIDAN AQUIFER
 JANUARY 12, 2006
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



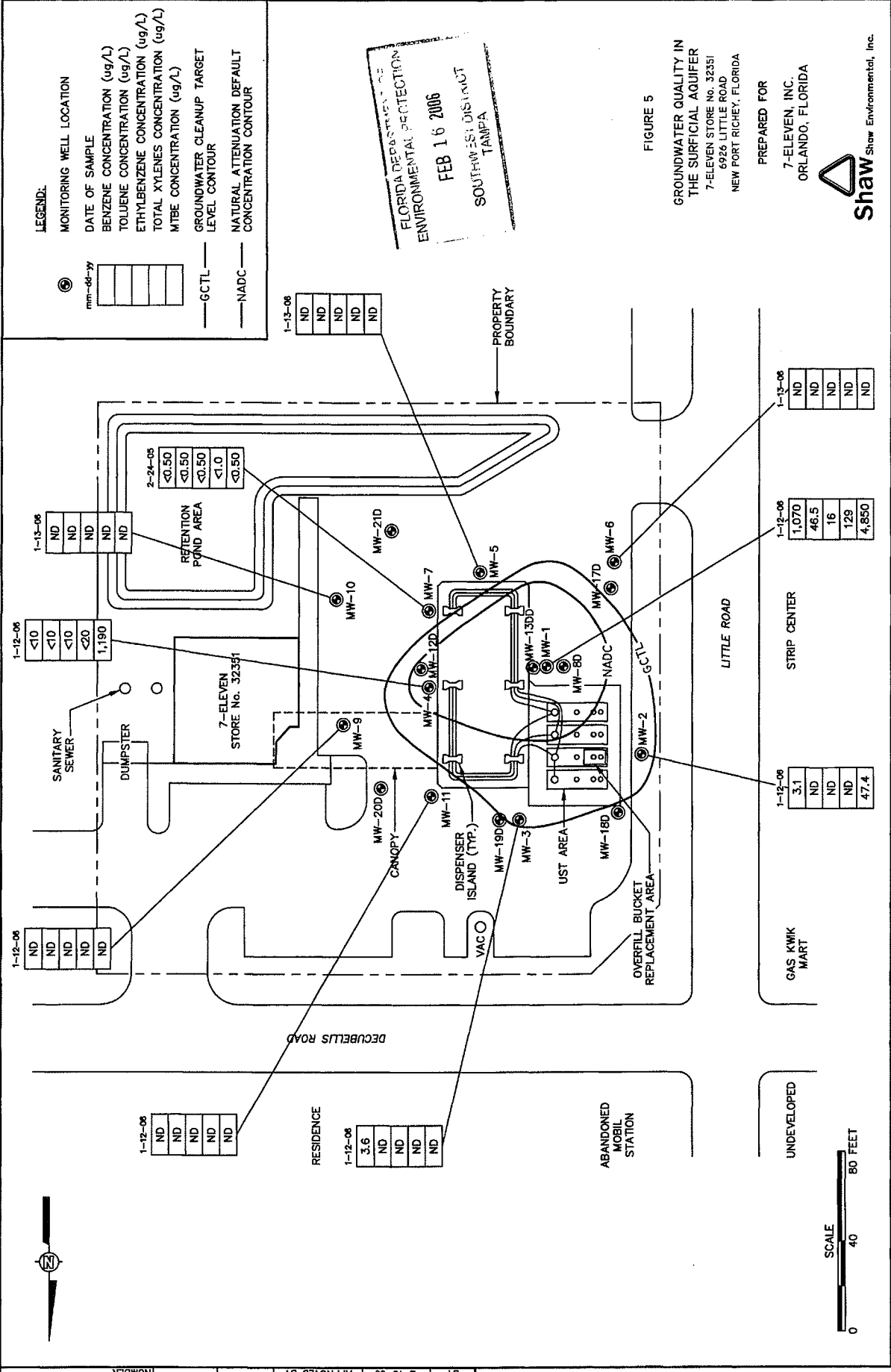
LITTLE ROAD

STRIP CENTER

GAS KWIK
 MART

UNDEVELOPED





DRAWING NUMBER 834355-B791
 DRAWN BY []
 CHECKED BY []
 SQ# 2-13-06
 APPROVED BY []



LEGEND:

MONITORING WELL LOCATION
 DATE OF SAMPLE
 BENZENE CONCENTRATION (ug/L)
 TOLUENE CONCENTRATION (ug/L)
 ETHYLBENZENE CONCENTRATION (ug/L)
 TOTAL XYLENES CONCENTRATION (ug/L)
 MTBE CONCENTRATION (ug/L)
 GROUNDWATER CLEANUP TARGET LEVEL CONTOUR
 NATURAL ATTENUATION DEFAULT CONCENTRATION CONTOUR

mm-dd-yy

— GCTL —
 — NADC —

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

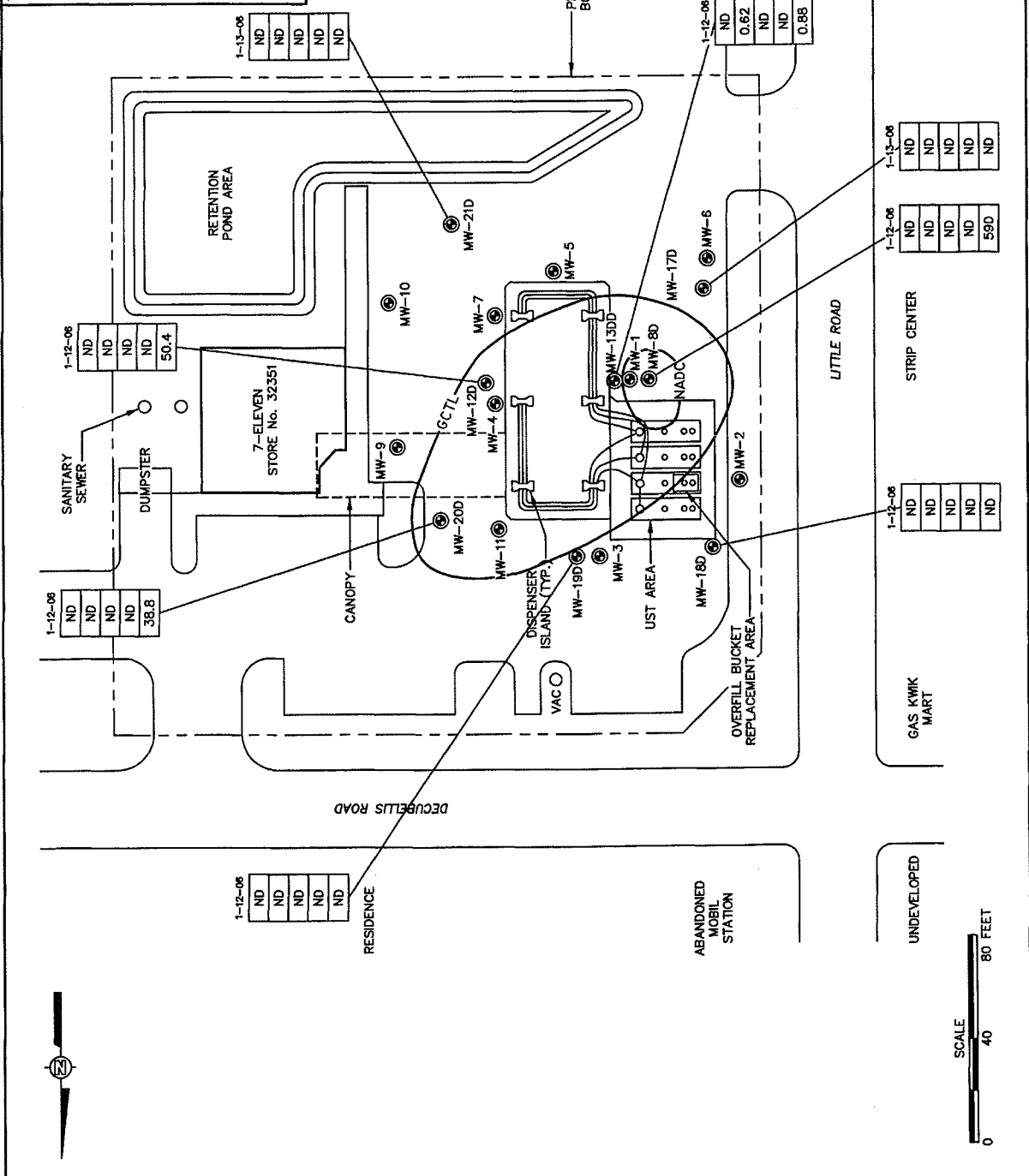
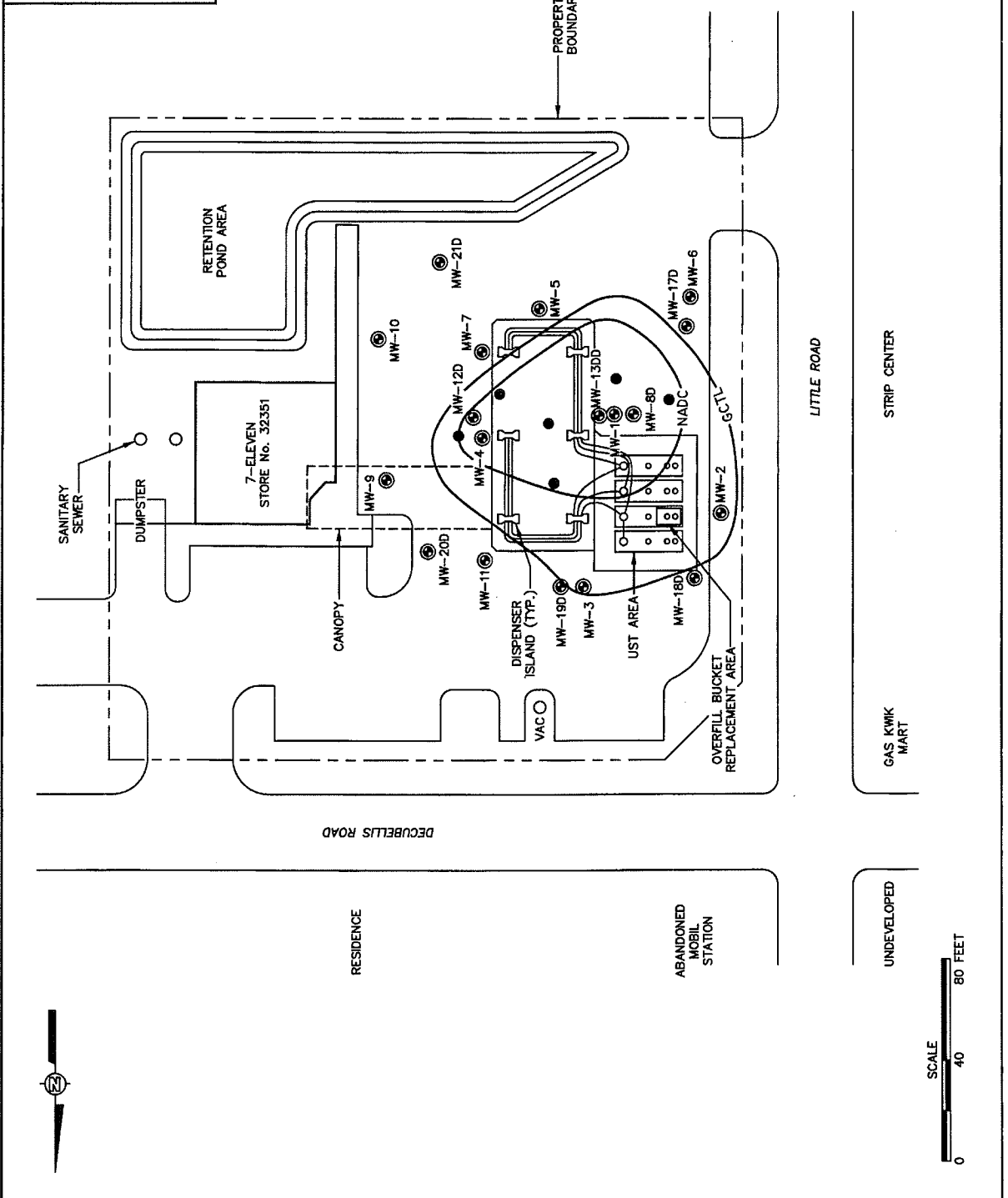


FIGURE 6
 GROUNDWATER QUALITY IN
 THE FLORIDAN AQUIFER
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW FORT RICHEY, FLORIDA



DRAWN BY SHF
 CHECKED BY
 APPROVED BY
 DATE 2-13-08
 DRAWING NUMBER 834355-B792



LEGEND:

- ⊙ MONITORING WELL LOCATION
- PROPOSED INJECTION WELL LOCATION
- GCTL — GROUNDWATER CLEANUP TARGET LEVEL CONTOUR
- NADC — NATURAL ATTENUATION DEFAULT CONCENTRATION CONTOUR

NOTE:
 INJECTION WELL LOCATIONS MAY BE REVISED SLIGHTLY DURING INSTALLATION TO ACCOMMODATE SITE CONDITIONS.

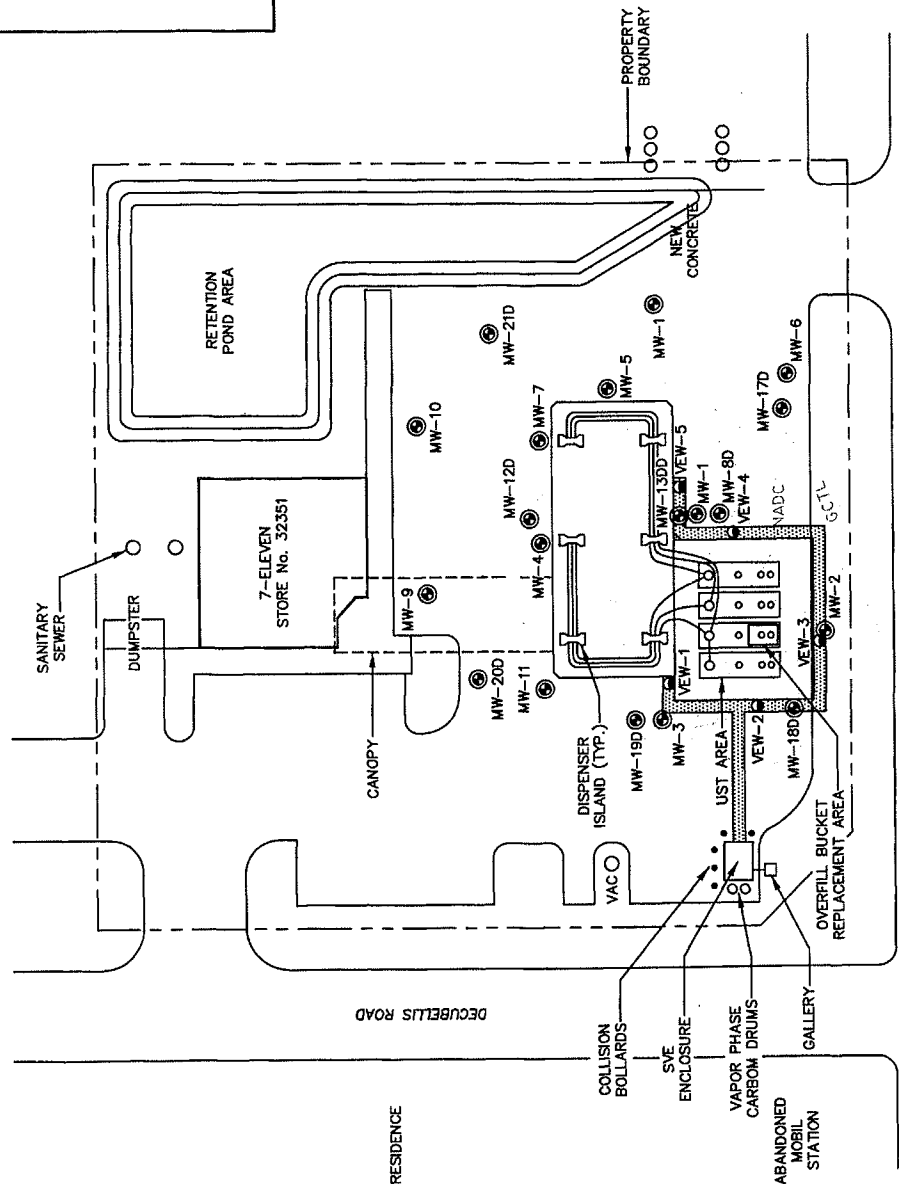
FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

FIGURE 7
 PROPOSED INJECTION WELL
 LAYOUT MAP
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



DRAWN BY: []
 SO. # 2-13-06
 CHECKED BY: []
 APPROVED BY: []
 DRAWING NUMBER 834355-8794



LEGEND:

- MONITORING WELL LOCATION
- SVE WELL LOCATION
- RADIUS OF INFLUENCE (20')
- TRENCH LOCATION (4")
- GROUNDWATER CLEANUP TARGET LEVEL CONTOUR
- NATURAL ATTENUATION DEFAULT CONCENTRATION CONTOUR

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 FEB 16 2006
 SOUTHWEST DISTRICT
 TAMPA

FIGURE 9
 PROPOSED VAPOR EXTRACTION SYSTEM LAYOUT MAP
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



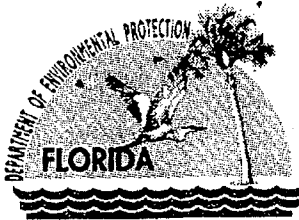
LITTLE ROAD

STRIP CENTER

GAS KWIK MART

UNDEVELOPED





Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

November 16, 2005

Mr. Willo Smith
7-Eleven, Inc.
1300 Lee Road
Orlando, FL 32810

Re: 7-Eleven Store #32351
6926 Little Road
New Port Richey, Pasco County, Florida
Facility ID #519800607

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
05 NOV 21 PM 12:50
BUREAU OF PETROLEUM
STORAGE SYSTEMS
TEAM 3

Dear Mr. Smith:

John Vargo, P.G., of the Bureau of Petroleum Storage Systems, Petroleum Cleanup Section 5, has reviewed the Request for Remedial Action Plan (RAP) Determination, dated October 19, 2005 (received October 21, 2005), prepared and submitted by Shaw Environmental, Inc., for the discharge discovered on December 1m 2003, at this site. The Department found all the documents submitted to date to be adequate to meet the contamination assessment requirements of Sections 62-770.600 and 62-770.630, Florida Administrative Code (F.A.C.). Therefore, you must now submit a Remedial Action Plan (RAP) in accordance with Section 62-770.700, F.A.C.

Please submit the RAP addressed to me within ninety (90) days of receipt of this request, as required by Section 62-770.700(1), F.A.C. If you have any questions concerning this review, please contact me at (813) 744-6100, ext. 427.

Sincerely,

Leslie E. L. Pedigo
Environmental Specialist III
Tanks Program
Division of Waste Management

LLEP

cc: Ken Hilliard, 7-Eleven, Inc.
David Petersen, Shaw Environmental, Inc.
Ivan Rodriguez, Pasco County Health Department
Ken Weber, Southwest Florida Water Management District
John Vargo, FDEP-BPSS, Petroleum Cleanup Section 5
Tom Conrardy, FDEP-BPSS

"More Protection, Less Process"

Printed on recycled paper.

October 19, 2005

Ms. Leslie Pedigo
Florida Department of Environmental Protection
Southwest District
3804 Coconut Drive
Tampa, Florida 33619

Re: **Supplemental Site Assessment Report (SSAR#3)**
7-Eleven Store No. 32351
6926 Little Road
New Port Richey, Pasco County, Florida
FDEP Facility ID No. 519800607
Project No. 834355-32351000



Dear Ms. Pedigo:

Shaw Environmental, Inc. (Shaw) is pleased to present the Florida Department of Environmental Protection (FDEP) with this Supplemental Site Assessment Report (SSAR) in response to the FDEP's comment letter dated April 18, 2005. Shaw has requested two extensions for this report and has received two approvals for extensions from the FDEP on June 13, 2005 and August 8, 2005. Copies of the FDEP comment letter and extension approval letters are in **Attachment A**. The following are responses to the FDEP's comments.

Comment 1: *Summary of previously submitted SSAR.*

Response 1: Not required.

Comment 2: *A deeper monitoring well should be installed adjacent to monitoring wells MW-1 and MW-8D to define the vertical extent of the MTBE plume. Groundwater samples should be collected for analysis of Gasoline Analytical Group (GAG) parameters. The top of casing should be surveyed, that water level measurements should be measured during each groundwater sampling event, and that differences in vertical groundwater elevations between these wells should be calculated and the results discussed.*

Response 2: Shaw supervised the installation of three shallow monitor wells, MW-9, MW-10, and MW-11, on June 6, 2005; one deep well, MW-13DD, on July 6, 2005; one deep well, MW-12D, on July 7, 2005; one deep well, MW-17D, on August 24, 2005; three deep wells, MW-18D, MW-19D, and MW-20D on August 25, 2005; and one deep well, MW-21D, on August 26, 2005. Monitor wells MW-9, MW-10, and MW-11 were installed using direct-push technology and wells MW-12D, MW-13DD, MW-17D, MW-18D, MW-19D, MW-20D, and MW-21D were installed using sonic drilling methods. Monitor wells MW-14, MW-15, and MW-16 have not been installed. The monitor well

construction details are summarized in **Table 1** and the Boring Logs and Well Construction and Development Logs are in **Attachment B**.

On April 25, 2005, and May 10, 2005, groundwater samples were collected from MW-1 and MW-8D and sent to Accutest Laboratories in Orlando, Florida, for analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by US Environmental Protection Agency (EPA) Method 8021. On July 19, 2005, groundwater samples were collected from MW-9, MW-10, MW-11, MW-12D, and MW-13DD; and on August 29, 2005, groundwater samples were collected from MW-17D, MW-18D, MW-19D, MW-20D, and MW-21D and sent to Accutest Laboratories in Orlando, Florida, for analyses of BTEX/MTBE by EPA Method 8021, for polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, and for total recoverable petroleum hydrocarbons (TRPH) by FDEP Method FL-PRO. Groundwater analytical results indicated that Groundwater Cleanup Target Levels (GCTLs) were exceeded in MW-1, MW-4, MW-8D, MW-12D, and MW-20D and Natural Attenuation Default Concentrations (NADCs) were exceeded in MW-1, MW-4, and MW-8D. The groundwater analytical data is summarized in **Table 2** and presented on **Figure 1** and **Figure 2**. The laboratory analytical report, chain-of-custody record, FDEP groundwater sampling logs, and field instrument calibration log are in **Attachment C**.

Prior to the groundwater sampling event on July 19, 2005, depth-to-water from top-of-casing measurements were collected from all onsite monitor wells (MW-1 through MW-13DD). Water table elevation contours representative of the surficial aquifer on July 19, 2005, indicate an inferred groundwater flow direction radially out from the underground storage tank area. Prior to the groundwater sampling even on August 29, 2005, depth-to-water from top-of-casing measurements were collected from MW-17D, MW-18D, MW-19D, MW-20D, and MW-21D. Water table elevation contours representative of the Upper Floridan Aquifer on August 29, 2005, indicate groundwater flowing towards the southwest. Depth-to-water measurements are summarized in **Table 3**. The groundwater flow in the surficial aquifer on July 19, 2005, is illustrated on **Figure 1** and the groundwater flow in the Upper Floridan Aquifer on August 29, 2005, is illustrated on **Figure 2**.

According to The Southwest Florida Water Management District's *1988 Ground-Water Resource Availability Inventory: Pinellas County, Florida*...the northern limit of the Intermediate Aquifer System is in Hillsborough and Polk Counties, therefore this site is underlain by the Surficial Aquifer which is underlain by the Upper Floridan Aquifer; they are separated at the site by a 12-foot clay layer. The elevation heads for MW-1 and MW-8D on July 19, 2005, were 29.17 feet and 29.05 feet, respectively. According to Sander, Laura, 1998, *A Manual of Field Hydrogeology*,(pps 115-116)...The vertical downward gradient is the difference in head between the two monitor wells divided by the

difference in points at which each monitor well is open to the water table (beginning of screened interval in each well). Using this calculation, the vertical hydraulic gradient between MW-1, located in the surficial aquifer, and MW-8D, located in the Upper Floridan Aquifer, is 0.003 foot per foot (ft/ft) with the flow downward. The elevation heads for MW-8D and MW-13DD (both located in the Upper Floridan Aquifer) on July 19, 2005, were 29.05 feet and 28.46 feet, respectively, for a vertical hydraulic gradient between the wells of 0.025 ft/ft with flow downward. Elevated dissolved petroleum hydrocarbon concentrations have been found in both the surficial and Floridan Aquifer at this site; however, the petroleum contamination has not migrated to the lower limits of the Floridan Aquifer and are not found in groundwater samples collected from MW-13DD, which is screened from 64 ft bls to 69 ft bls. Therefore, the vertical extent of the petroleum contamination has been defined. Shaw recommends proceeding with a Remedial Action Plan at the site to address the soil and groundwater contamination.

Comment 3: *Future soil and groundwater samples should be collected for analysis of Gasoline Analytical Group (GAG) parameters per Chapter 62-770, F.A.C., Table B, including FL-PRO.*

Response 3: Noted.

Comment 4: *Future groundwater level measurements from all monitoring wells should be collected during each groundwater sampling event, to confirm groundwater flow direction.*

Response 4: Noted.

Comment 5: *Future groundwater sampling events must conform to the Department's new Groundwater Sampling SOP revised February 1, 2004. Use of bailers is not recommended by FDEP, as referenced by FDEP memorandum dated April 3, 2002. Future groundwater sampling logs should be completely filled out and presented along with instrument calibration forms for each sampling event.*

Response 4: Noted.

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices,

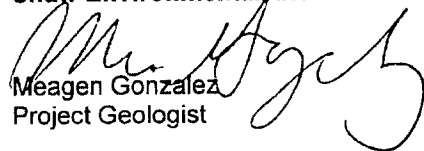
Ms. Leslie Pedigo
October 19, 2005
Page 4

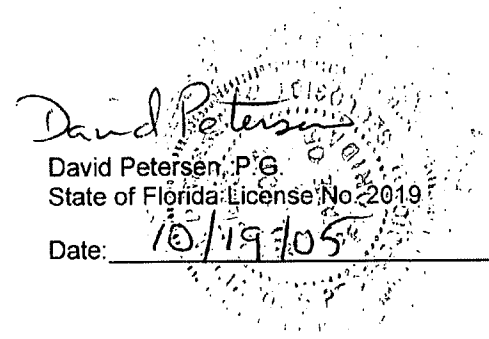
or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

If you have any questions or need additional information, please contact me at (813) 612-3602 or David Petersen at (813) 612-3683.

Sincerely,

Shaw Environmental, Inc.


Meagen Gonzalez
Project Geologist


David Petersen, P.G.
State of Florida License No. 2019
Date: 10/19/05

Attachments: Tables
Figures
Attachment A—FDEP Comment Letter and SSAR Extension Approval Letters
Attachment B—Boring Logs and Well Construction and Development Logs
Attachment D—Laboratory Analytical Report, Chain-of-Custody Record, and FDEP Groundwater Sampling Logs, and Field Instrument Calibration Log

cc: Ken Hillard, 7-Eleven, Inc. (.pdf)
Shaw/7-Eleven Portal
Tampa Project File

DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 DATE: 10-18-05
 NUMBER: 834355-B710

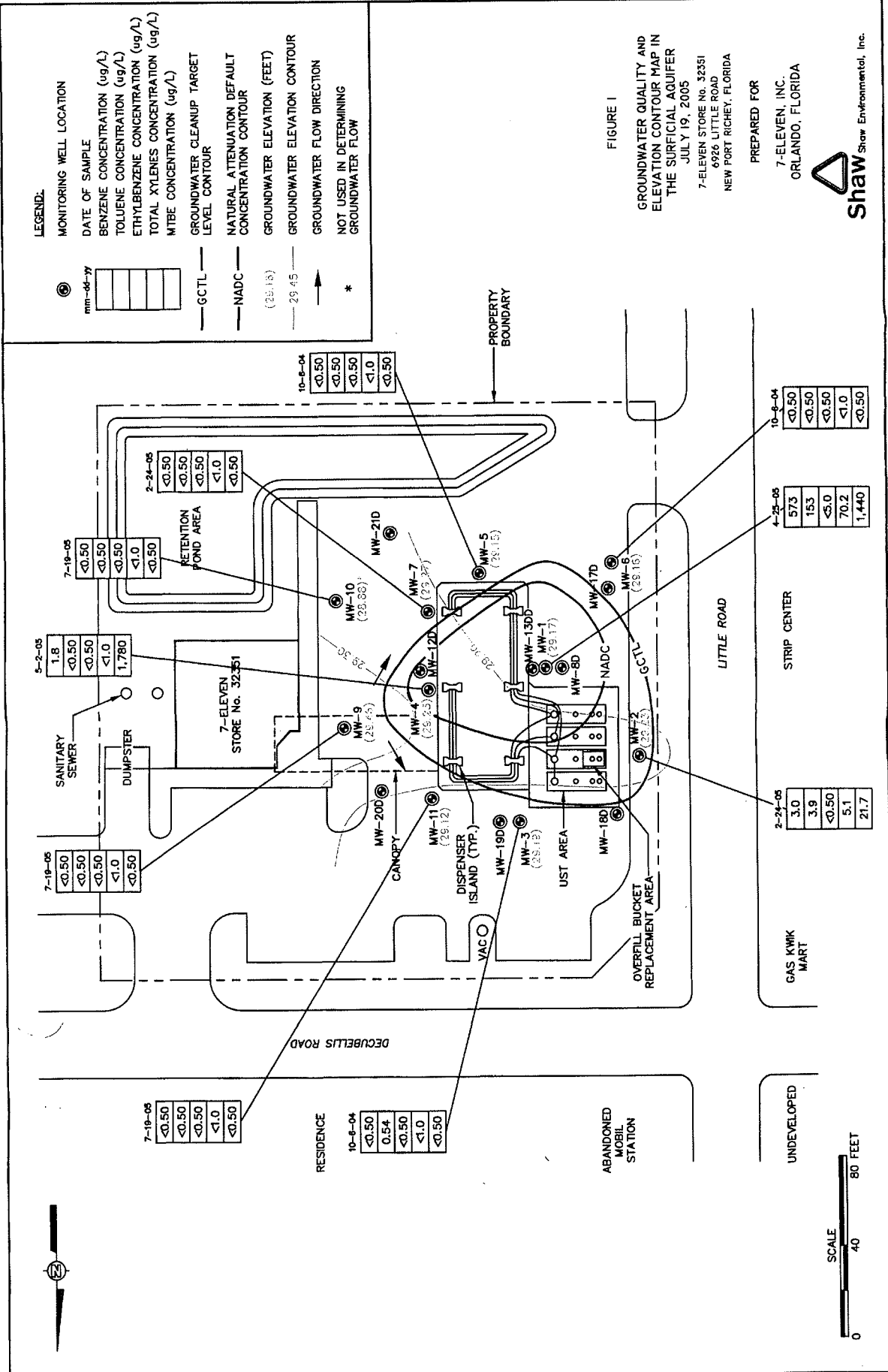


FIGURE 1
 GROUNDWATER QUALITY AND ELEVATION CONTOUR MAP IN THE SURFICIAL AQUIFER
 JULY 19, 2005
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW PORT RICHEY, FLORIDA
 PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA



SCALE
 0 40 80 FEET

DRAWN BY: SP.F. APPROVED BY: 10-18-05
 CHECKED BY: APPROVED BY: 10-18-05
 DRAWING NUMBER: 834355-8711

LEGEND:

MONITORING WELL LOCATION
 DATE OF SAMPLE
 BENZENE CONCENTRATION (ug/L)
 TOLUENE CONCENTRATION (ug/L)
 ETHYLBENZENE CONCENTRATION (ug/L)
 TOTAL XYLENES CONCENTRATION (ug/L)
 MTBE CONCENTRATION (ug/L)
 GCTL — GROUNDWATER CLEANUP TARGET LEVEL CONTOUR
 NADC — NATURAL ATTENUATION DEFAULT CONCENTRATION CONTOUR
 (25.24)
 20.50 — GROUNDWATER ELEVATION CONTOUR
 — GROUNDWATER ELEVATION CONTOUR
 — GROUNDWATER FLOW DIRECTION
 * — NOT USED IN DETERMINING GROUNDWATER FLOW

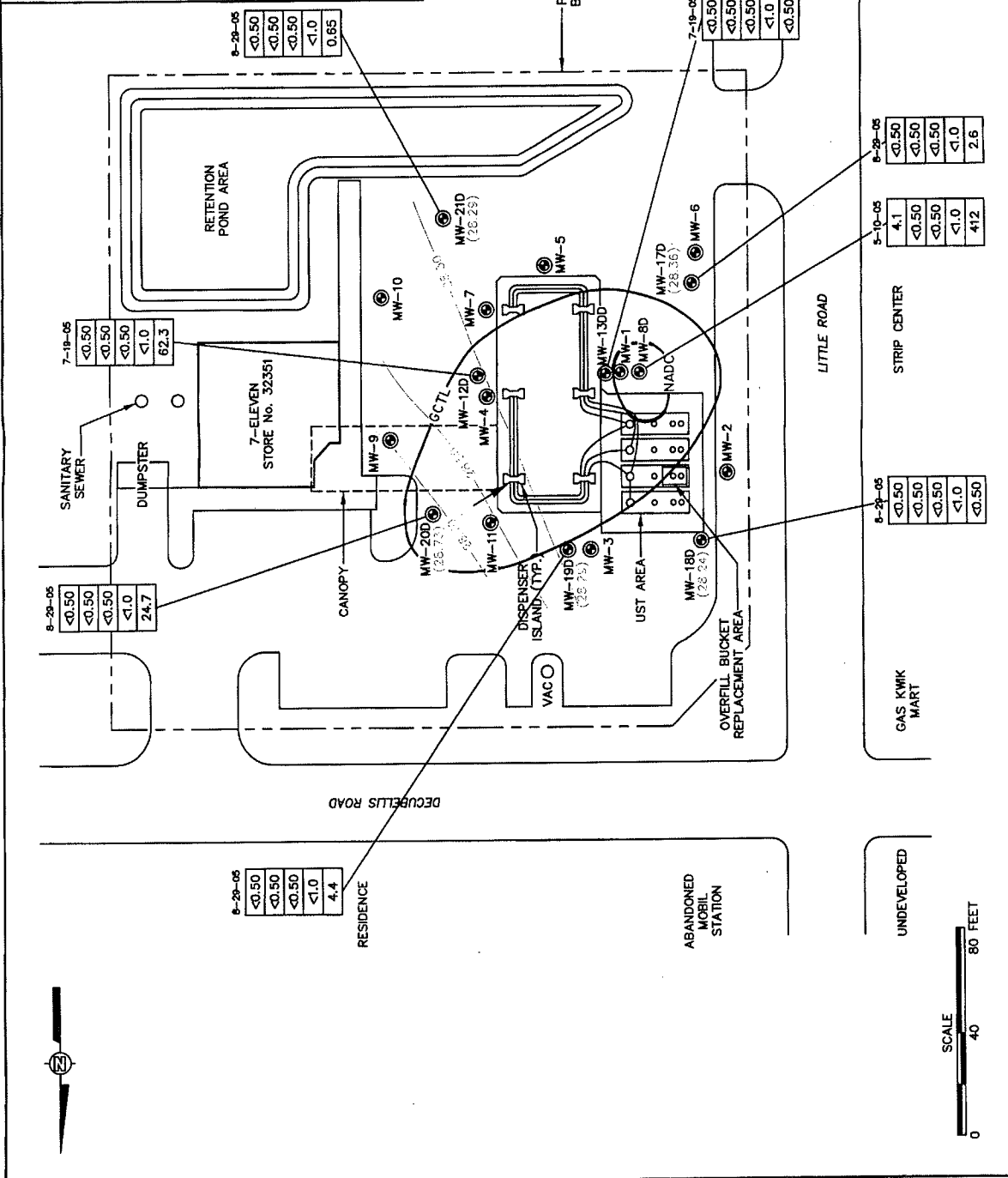


FIGURE 2
 GROUNDWATER QUALITY AND ELEVATION CONTOUR MAP IN THE FLORIDAN AQUIFER
 AUGUST 29, 2005
 7-ELEVEN STORE No. 32351
 6926 LITTLE ROAD
 NEW FORT RICHEY, FLORIDA

PREPARED FOR
 7-ELEVEN, INC.
 ORLANDO, FLORIDA

Shaw Shaw Environmental, Inc.



Florida Department of Environmental Protection Bureau of Petroleum Storage Systems Storage
Tank Facility Compliance Inspection Report

Name: 7 Eleven Store # 32351
Facility ID #: 9800607
Date/Time: December 2, 2003 / 1:30 pm
Contact: John, From Techniflow, Inc.

January 5, 2004

Activity

Regular unleaded spill bucket removal due to failure of the hydrostatic test conducted and the installation of a new one. According with Shaw Environmental representative the OVAs samples show contamination of the soil tested. The system is a double walled tanks and piping with no discharge history. Clean soil will be utilized for backfill and the contaminated soil will be removed. The new spill bucket was an OPW and it was hydrostatically tested showing no leaks.

PSSSC

The contractor for this project is Techniflow, Inc. with a certification # PCC048391, telephone (727) 528-0805.

Release Detection Method

N/A

Pressure test results/Hydrostatic Test

The new spill bucket was filled with water for over four (4) hours and no leaks were noticed.

Remarks

Please submit a full closure assessment report within sixty (60) days after removing the old spill bucket. A Florida Department of Environmental Protection (FDEP) Closure Assessment Report should be prepared and submitted, describing the work performed and including the following: (Storage Tank System Closure Assessment Requirements April 1998, Section H)

1. A scale site map showing the area(s) excavated and approximate locations of all samples collected;
2. A table summarizing all field and analytical results obtained, listing and approximate depth at which each sample was collected;
3. Copies of laboratories reports;
4. Information on the dimensions of the excavation(s), depth to groundwater, volume of soil excavated, and disposal method for the excavated soil; and
5. Information on the procedures (particularly on the soil field screening procedures) followed during closure.



Incident Notification Form

PLEASE PRINT OR TYPE

Instructions are on the reverse side. Please complete all applicable items.

DEP Form # 32761-2001A
Form Title: Incident Notification Form
Effective Date: 06/13/1978

ENTERED

1. Facility ID Number (if registered): 519800607 2. Date of form completion: 12/5/03

3. General Information

Facility name: 7-Eleven Store #32351
 Facility Owner or Operator: 7-Eleven, Inc.
 Contact Person: Willie Smith Telephone number: (407) 532-2039 County: Pasco
 Facility mailing address: 1300 Lec Road, Orlando, Florida 32810
 Location of incident (facility street address): 6926 Little Road, New Port Richey, FL
 Latitude and Longitude of incident (if known): _____

4. Date of Discovery of Incident: 12/4/03 month/day/year

5. Monitoring method that indicates a possible release or an incident: (check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Liquid detector (automatic or manual) | <input type="checkbox"/> Groundwater samples | <input type="checkbox"/> Closure |
| <input type="checkbox"/> Vapor detector (automatic or manual) | <input type="checkbox"/> Monitoring wells | <input type="checkbox"/> Inventory control |
| <input type="checkbox"/> Tightness test | <input type="checkbox"/> Internal inspection | <input type="checkbox"/> Statistical Inventory Reconciliation |
| <input type="checkbox"/> Pressure test | <input type="checkbox"/> Odors in the vicinity | <input type="checkbox"/> Groundwater analytical samples |
| <input type="checkbox"/> Breach of integrity test | <input checked="" type="checkbox"/> Automatic tank gauging | <input type="checkbox"/> Soil analytical tests or samples |
| <input type="checkbox"/> Visual observation | <input type="checkbox"/> Manual tank gauging | <input type="checkbox"/> Other _____ |

6. Type of regulated substance stored in the storage system: (check one)

- | | | |
|--|---|---------------------------------------|
| <input type="checkbox"/> Diesel | <input type="checkbox"/> Used/waste oil | <input type="checkbox"/> New/lube oil |
| <input checked="" type="checkbox"/> Gasoline | <input type="checkbox"/> Aviation gas | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Heating oil | <input type="checkbox"/> Jet fuel | <input type="checkbox"/> Other _____ |
- Hazardous substance - includes CERCLA substances, pesticides, ammonia, chlorine, and their derivatives, and mineral acids.
 (write in name or Chemical Abstract Service (CAS) number) _____

7. Incident involves or originated from a: (check all that apply)

- | | | | | |
|---|---|--|--------------------------------------|--|
| <input type="checkbox"/> Tank | <input type="checkbox"/> Unusual operating conditions | <input type="checkbox"/> Dispensing equipment | <input type="checkbox"/> Pipe | <input checked="" type="checkbox"/> Overfill protection device |
| <input type="checkbox"/> Piping sump | <input checked="" type="checkbox"/> Release detection equipment | <input type="checkbox"/> Secondary containment system | <input type="checkbox"/> Other _____ | <input type="checkbox"/> Dispenser Liners |
| <input type="checkbox"/> Loss of >100 gallons to an impervious surface other than secondary containment | | <input type="checkbox"/> Loss of >500 gallons within secondary containment | | |

8. Cause of the incident, if known: (check all that apply)

- | | | | |
|---|--|---|--------------------------------------|
| <input type="checkbox"/> Overfill (<25 gallons) | <input type="checkbox"/> Spill (<25 gallons) | <input type="checkbox"/> Theft | <input type="checkbox"/> Corrosion |
| <input type="checkbox"/> Faulty Probe or sensor | <input type="checkbox"/> Human error | <input type="checkbox"/> Installation failure | <input type="checkbox"/> Other _____ |

9. Actions taken in response to the incident: The gasoline tank monitor indicates an alarm.

Techniflow, Inc. was contracted to investigate and repair gasoline tank monitor.

10. Comments: Following completion of repair the necessary paperwork will be forwarded to you.

11. Agencies notified (as applicable):

- Fire Department Local Program IIRP (district/person)

12. To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

Willie Smith/Environmental Manager, Southeast Region

Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative: *Willie Smith*

Discovered: 12-5-03
 Received: 12-5-03
 corrected: 12-10-03



Incident Notification Form

PLEASE PRINT OR TYPE

Instructions are on the reverse side. Please complete all applicable items.

DEP Form # 59-261-9001A
Form Title: Incident Notification Form
Effective Date: July 13, 1998

ENTERED

1. Facility ID Number (if registered): 519800607 2. Date of form completion: 10/10/03

3. General Information

Facility name: 7-Eleven Store #32351
 Facility Owner or Operator: 7-Eleven, Inc.
 Contact Person: Willo Smith Telephone number: (407) 532-2031 County: Pasco
 Facility mailing address: 1300 Lee Road, Orlando, Florida 32810
 Location of incident (facility street address): 6926 Little Road, New Port Richey, FL
 Latitude and Longitude of incident (if known): _____

D.E.P.
AUG 26 2004
 Southwest District Tampa

4. Date of Discovery of Incident: 10/09/03 month/day/year

5. Monitoring method that indicates a possible release or an incident: (check all that apply)

- | | | |
|--|---|--|
| <input type="checkbox"/> Liquid detector (automatic or manual) | <input type="checkbox"/> Groundwater samples | <input type="checkbox"/> Closure |
| <input type="checkbox"/> Vapor detector (automatic or manual) | <input type="checkbox"/> Monitoring wells | <input type="checkbox"/> Inventory control |
| <input type="checkbox"/> Tightness test | <input type="checkbox"/> Internal inspection | <input type="checkbox"/> Statistical Inventory Reconciliation |
| <input type="checkbox"/> Pressure test | <input type="checkbox"/> Odors in the vicinity | <input type="checkbox"/> Groundwater analytical samples |
| <input type="checkbox"/> Breach of integrity test | <input type="checkbox"/> Automatic tank gauging | <input type="checkbox"/> Soil analytical tests or samples |
| <input checked="" type="checkbox"/> Visual observation | <input type="checkbox"/> Manual tank gauging | <input checked="" type="checkbox"/> Other () <u>overspill buckets failed hydro test</u> |

6. Type of regulated substance stored in the storage system: (check one)

- | | | |
|---|--|---------------------------------------|
| <input type="checkbox"/> Diesel | <input type="checkbox"/> Unclwaste oil | <input type="checkbox"/> New/lube oil |
| <input checked="" type="checkbox"/> Gasoline | <input type="checkbox"/> Aviation gas | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Heating oil | <input type="checkbox"/> Jet fuel | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Hazardous substance - includes CERCLA substances, pesticides, ammonia, chlorine, and their derivatives, and mineral acids.
(write in name or Chemical Abstract Service (CAS) number): _____ | | |

7. Incident involves or originated from a: (check all that apply)

- | | | | | |
|---|---|--|--------------------------------|--|
| <input type="checkbox"/> Tank | <input type="checkbox"/> Unusual operating conditions | <input type="checkbox"/> Dispensing equipment | <input type="checkbox"/> Pipe | <input checked="" type="checkbox"/> Overfill protection device |
| <input type="checkbox"/> Piping sump | <input type="checkbox"/> Release detection equipment | <input type="checkbox"/> Secondary containment system | <input type="checkbox"/> Other | <input type="checkbox"/> Dispenser Liners |
| <input type="checkbox"/> Loss of >100 gallons to an impervious surface other than secondary containment | | <input type="checkbox"/> Loss of >500 gallons within secondary containment | | |

8. Cause of the incident, if known: (check all that apply)

- | | | | |
|---|--|---|--------------------------------------|
| <input type="checkbox"/> Overfill (<25 gallons) | <input type="checkbox"/> Spill (<25 gallons) | <input type="checkbox"/> Theft | <input type="checkbox"/> Corrosion |
| <input type="checkbox"/> Faulty Probe or sensor | <input type="checkbox"/> Human error | <input type="checkbox"/> Installation failure | <input type="checkbox"/> Other _____ |

9. Actions taken in response to the incident: The regular overspill buckets failed the hydro test.

7-Eleven Facilities department will conduct investigation.

10. Comments: Following completion of repair the necessary paperwork will be forwarded to you.

11. Agencies notified (as applicable):

- | | | |
|--|--|--|
| <input type="checkbox"/> Fire Department | <input type="checkbox"/> Local Program | <input type="checkbox"/> DEP (district/person) |
|--|--|--|

12. To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

Printed Name of Owner, Operator or Authorized Representative: Willo Smith/Environmental Manager, Southeast Region

Signature of Owner, Operator or Authorized Representative: *[Signature]*

*Discovers: 10-9-03
 Received 10-10-03
 corrected: 12-2-03*



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Mimi A. Drew
Secretary

January 4, 2011

Nicholas Barron
Handex Consulting and Remediation, LLC
111 Kelsey Lane, Suite E
Tampa, Florida 33619

Subject: Deliverable Review
Mobil #02-AM5
7008 Little Road
New Port Richey, Pasco County
FDEP Facility ID# 518515011
Site Score: 81
Discharge Date: 10/23/1991

Dear Mr. Barron:

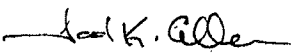
Petroleum Cleanup Section 6 of the Bureau of Petroleum Storage Systems has reviewed the Post Active Remediation Monitoring Report dated December 23, 2010, received December 28, 2010. This submittal is the final deliverable for preapproval work order # 2011-96-W91130.

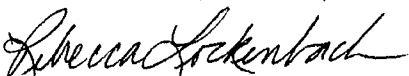
The deliverable is acceptable and demonstrates that the requirements of the work order have been satisfied. Handex Consulting and Remediation, LLC can now invoice for the balance of the work order.

A work order for additional monitoring will follow under separate cover. No proposal is necessary.

If you have any questions, please contact me at 850-877-1133, Ext. 3703, through Mail Station 4590 at the letterhead address or by E-mail at tallen@ene.com.

Sincerely,

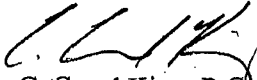

Tod K. Allen
Site Manager
Ecology & Environment, Inc.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems


Rebecca Lockenbach
FDEP Section Leader
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems

"More Protection, Less Process"
www.dep.state.fl.us

Nicholas Barron
January 4, 2011
Page two

Reviewed by:



C. Creed King, P.C.
Ecology & Environment, Inc.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems

1/4/11
Date

/tka

cc: Mr. Michael Meola, Exxon Mobil Corporation, 5224 West SR 46, #339, Sanford, Florida
32771
File



PA 58453

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

10 DEC 23 PM 12:55

2012

STANDARD SYSTEMS
FACILITY

December 23, 2010

Mr. Tod K. Allen
Florida Department of Environmental Protection
Petroleum Cleanup Section 6
Mail Station 4590
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

**RE: Twenty-third Quarterly Post Action Remedial Monitoring Report
Former Mobil # 02-AM5
7008 Little Road
New Port Richey, Florida
FDEP Facility ID No. 51/8515011
Work Order No. 2011-96-W91130
HCR Project No. 112045.013**

Dear Mr. Allen:

Handex Consulting and Remediation – Southeast, LLC (HCR) is pleased to present this Twenty-third Quarter of Post Action Remedial Monitoring (PARM) report for the above reference site. This report details the results of the PARM event performed in accordance with the current Work Order (#2011-96-W91130). The FDEP work order and the September 2, 2010 deliverable review letter are included as **Appendix A**. The current site priority score is 81 and the site is managed by the Florida Department of Environmental Protection (FDEP). A site plan is included as **Figure 1**.

SITE HISTORY

The site is located in New Port Richey, Florida at the intersection of Little Road and DeCubellis Road. The site was operated as a retail gas station until 2005 when it was purchased by First X Realty, L.P.. Presently the site is vacant. On December 7, 1988, a Discharge Notification Form (DFR) was submitted based on groundwater analytical results. In May 1991 Missimer and Associates Inc. submitted a Contamination Assessment Report (CAR) characterizing the extent of contamination onsite. On May 24, 1991, the site became eligible for state funded cleanup under the Early Detection Incentive (EDI) Program.

PARM
JA

A remedial action plan (RAP) was submitted in June 1992 and approved in August 1992. Groundwater and soil remediation was started in November 1992 by ViroGroup, Inc. System operation and maintenance was conducted by ViroGroup, Inc. until 1995, at which time Handex of Florida (now HCR) began maintaining the remediation system. A remedial action modification plan (RAMP) was submitted in September 1998 by HCR; recommending implementation of an air sparge system. In February 1999, HCR submitted a system modification installation startup report as air sparge/SVE was initiated on January 22, 1999 and February 1, 1999. In December 1999, six underground storage tanks (USTs) were removed (one 12,000 gallon (gal), one 10,000 gal, two 6,000 gal and one 1,000 gal). During the removal of USTs, milestone monitoring wells, remediation system piping, and remediation system wells were destroyed. In February 2000, FDEP granted approval for HCR to replace the destroyed wells and install five air sparge (AS) and three soil vapor extraction (SVE) wells for the purpose of active remediation.

Active remediation was re-started on July 21, 1999 and was discontinued on June 16, 2003; the site was then placed into post active remedial monitoring (PARM) and active remediation PARM activities have continued for 20 quarters at the site. The Deliverable Review letter dated March 11, 2009 agreed with HCR's request to be released from any further obligation under the pay for performance agreement. A proposal for a Supplemental Site Assessment (SSA) was requested and submitted on June 29, 2009. The SSA report was submitted to the FDEP on December 15, 2009. The twenty-first and twenty-second PARM events were conducted on May 18, 2010 and August 10, 2010, respectively. The following report summarizes the twenty-third quarterly PARM sampling event.

GROUNDWATER SAMPLING

On November 11, 2010 groundwater samples were collected from monitoring wells MW-1R2 and MW-20 and shipped to TestAmerica Analytical Testing Corporation (TestAmerica) to be analyzed for United States Environmental Protection Agency (USEPA) Methods 8260 for benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether (BTEX/MTBE) and 8270 for polynuclear aromatic hydrocarbons (PAHs).

A review of the November 11, 2010 sampling results indicated that all analyzed constituents in the sampled wells were below their respective Chapter 62-777, Florida Administrative Code (F.A.C.) Table I Groundwater Cleanup Target Levels.

A Groundwater Monitoring Well Analytical Summary is presented as **Table 1**. A Groundwater Analytical Summary Map is depicted as **Figure 2**. A copy of the

laboratory analytical report from the sampling event conducted on November 11, 2010 is included in **Appendix B**. Groundwater Sampling Logs and Field Instrument Calibration Records are included in **Appendix C**.

Depth-to-water measurements were collected from the sampled wells during the twenty-third Post Remedial Action Quarterly Monitoring Event. Water-table measurement data, elevation data, and well construction information are presented in **Table 2** and a groundwater elevation map is presented as **Figure 3**. A groundwater elevation contour map could not be generated due to insufficient data.

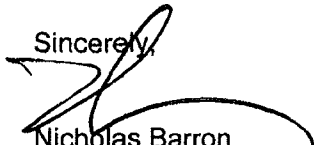
SUMMARY AND RECOMMENDATIONS

Based on the analytical results of the groundwater sampling from the November 11, 2010 PARM activities, HCR recommends continuing PARM activities. HCR proposes the next sampling event occur in February 2011.

Once two quarters of PARM sampling produce consecutive groundwater analytical results below GCTLs, PARM sampling will cease. At that time, a Site Rehabilitation Completion Report with a No Further Action proposal will be submitted. If significant increases in BTEX, MTBE, or PAHs concentrations are revealed during future proposed PARM activities, additional remedial activities may be discussed with the FDEP.

HCR appreciates the opportunity to assist the FDEP on this project. If you have any comments or concerns, please contact the undersigned at (813) 626-4646.

Sincerely,



Nicholas Barron
Associate Project Manager



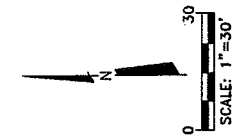
Timothy Foster
Senior Project Manager

cc: ExxonMobil Oil Corporation File
HCR Tampa File

FIGURE 1
SITE PLAN

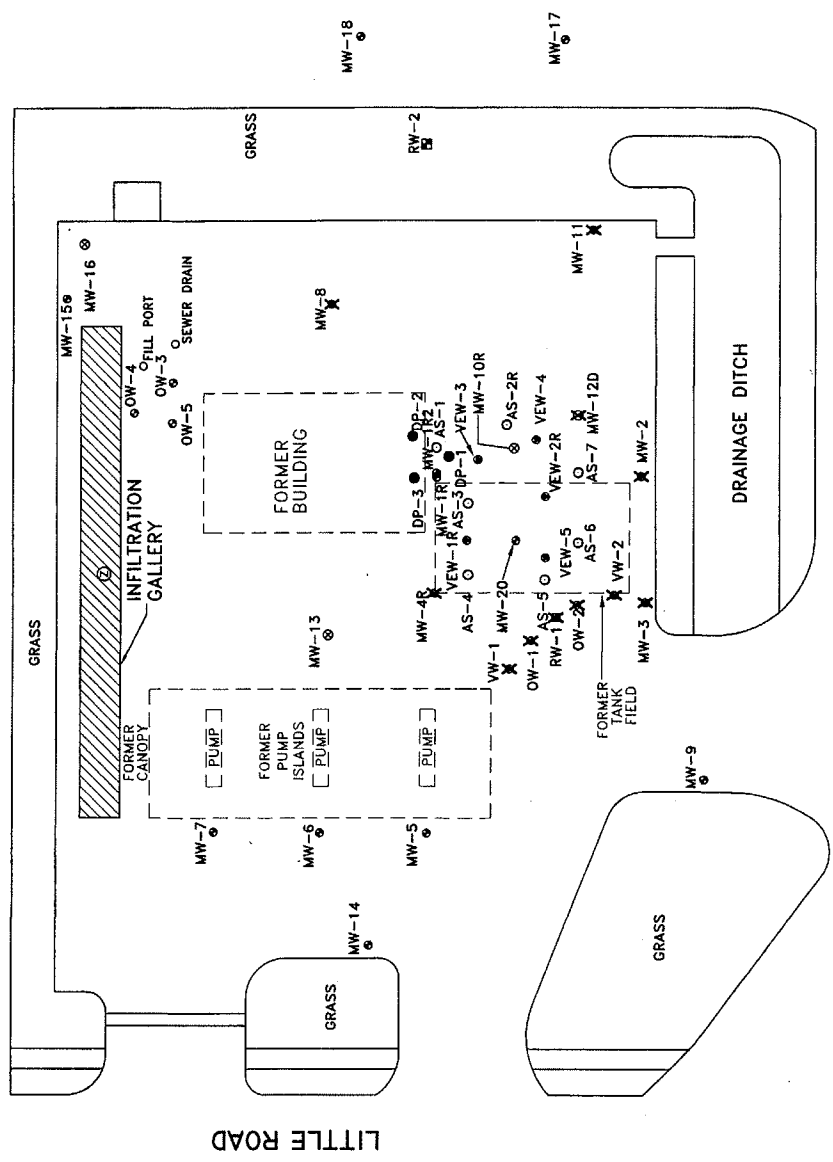
FORMER MOBIL SERVICE STATION# 02-AM-5
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
12-21-10

111 Kelsey Lane, Suite C
Tampa, Florida 33619
Tel: (813) 826-4646
Fax: (813) 826-1898
Certificate of Authorization # 26812



LEGEND

- - MONITORING WELL
- ⊗ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊖ - RECOVERY WELL
- ⊕ - VAPOR EXTRACTION WELL
- - AIR SPARGE WELL
- ⊙ - PIEZOMETER
- MW-1R + MW-1R2 - REPLACEMENT WELLS
- X - WELL DESTROYED
- - DIRECT PUSH BORING



LAW OFFICE

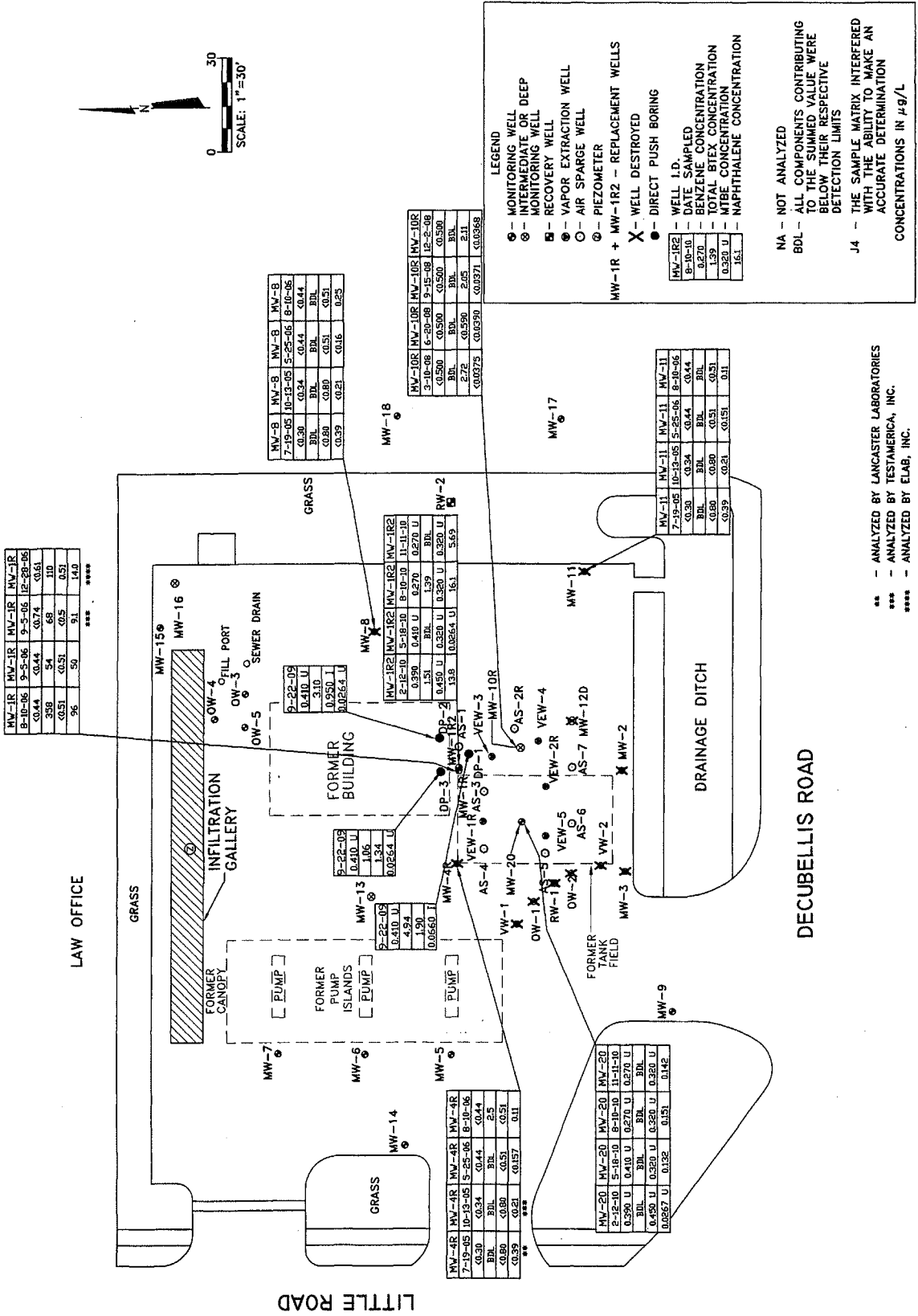
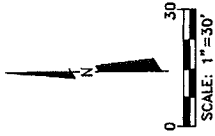
DECUBELLIS ROAD

LITTLE ROAD

FIGURE 2
GROUNDWATER ANALYTICAL
SUMMARY MAP

FORMER MOBIL SERVICE STATION# 02-AM-5
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA

111 Keeley Lane, Suite C
Tampa, Florida 33619
Telephone: (813) 628-4548
Fax: (813) 628-1898
Certificate of Authorization# 26812



MW-1R	MW-1R	MW-1R	MW-1R
8-10-06	9-5-06	9-5-06	12-20-06
0.44	0.44	0.74	0.61
358	54	68	110
0.51	0.51	0.5	0.51
96	50	91	14.0

MW-8	MW-8	MW-8	MW-8
7-19-05	10-19-05	5-25-06	8-10-06
0.30	0.34	0.44	0.44
BUL	BUL	BUL	BUL
0.90	0.80	0.51	0.51
0.39	0.21	0.16	0.25

MW-10R	MW-10R	MW-10R	MW-10R
2-16-00	5-18-00	8-10-00	11-11-00
0.39	0.40	0.70	0.70
0.59	0.59	0.59	0.59
0.150	0.230	0.380	0.300
133	10264	181	5.69

MW-11	MW-11	MW-11	MW-11
7-19-05	10-19-05	5-25-06	8-10-06
0.30	0.34	0.44	0.44
BUL	BUL	BUL	BUL
0.80	0.80	0.51	0.51
0.39	0.21	0.151	0.1

LEGEND

- - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊞ - RECOVERY WELL
- ⊠ - VAPOR EXTRACTION WELL
- - AIR SPARGE WELL
- ⊕ - PIEZOMETER
- X - WELL DESTROYED
- - DIRECT PUSH BORING

MW-1R + MW-1R2 - REPLACEMENT WELLS

MW-1R2	WELL I.D.
8-10-10	DATE SAMPLED
0.270	BENZENE CONCENTRATION
1.39	TOTAL BTEX CONCENTRATION
0.320 U	MTBE CONCENTRATION
16.1	NAPHTHALENE CONCENTRATION

NA - NOT ANALYZED
BDL - ALL COMPONENTS CONTRIBUTING TO THE SUMMED VALUE WERE BELOW THEIR RESPECTIVE DETECTION LIMITS
J4 - THE SAMPLE MATRIX INTERFERED WITH THE ABILITY TO MAKE AN ACCURATE DETERMINATION CONCENTRATIONS IN µg/L

*** - ANALYZED BY LANCASTER LABORATORIES
**** - ANALYZED BY TESTAMERICA, INC.
***** - ANALYZED BY ELAB, INC.

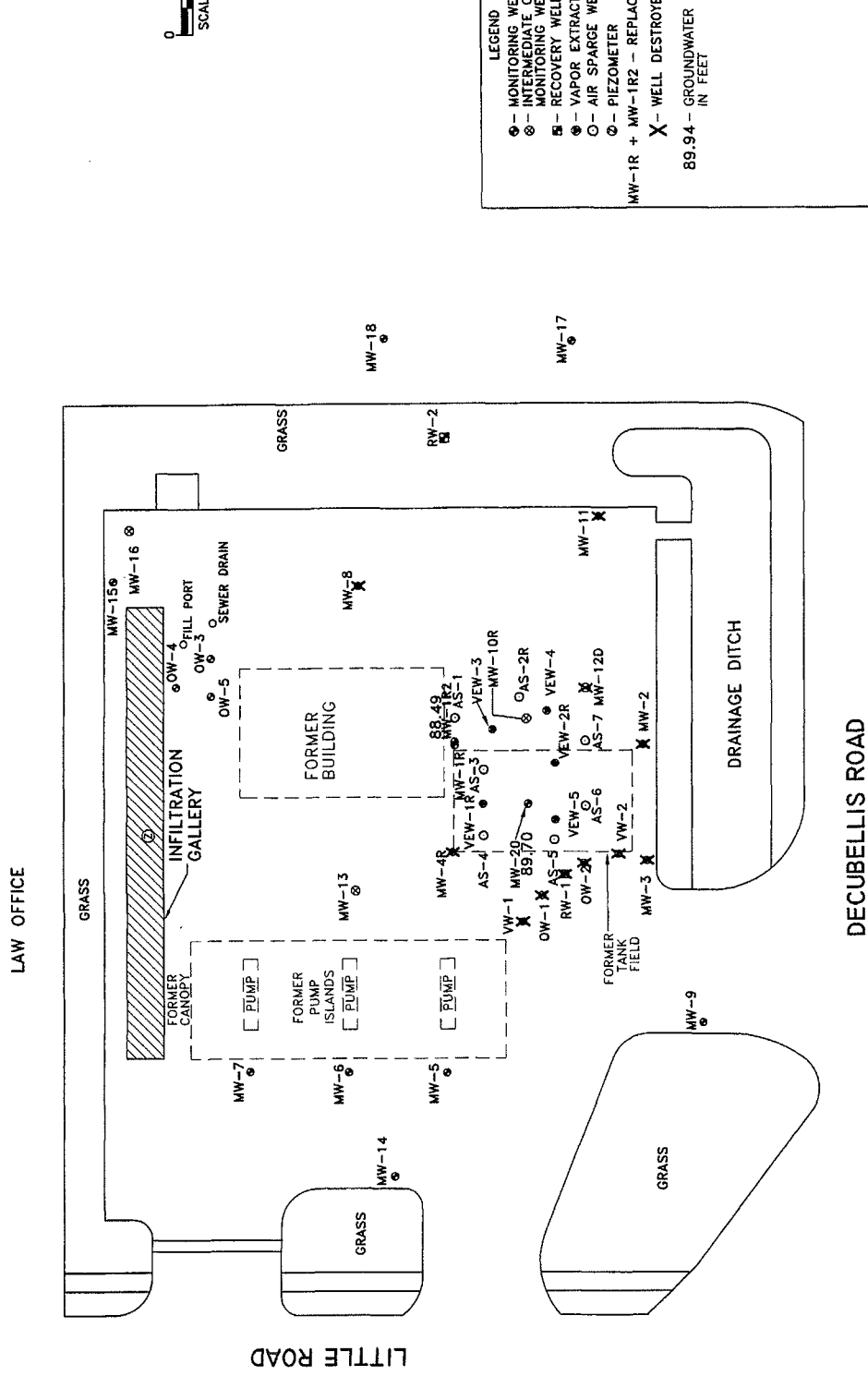
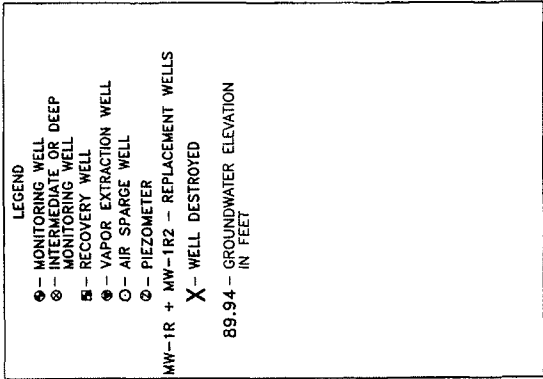
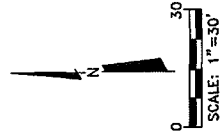
DECUBELLIS ROAD

LITTLE ROAD

FIGURE 3
GROUNDWATER ELEVATION MAP
(NOVEMBER 11, 2010)

FORMER MOBIL SERVICE STATION# 02-AM-5
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
12-21-10

111 Kelsey Lane, Suite E
Tampa, Florida 33618
Telephone: (813) 826-1648
Fax: (813) 826-1698
Certificate of Authorization# 26812
HARDEK CONSULTING
& REMEDIATION LLC
HCR



LAW OFFICE

LITTLE ROAD

DECUBELLIS ROAD

DRAINAGE DITCH

INFILTRATION GALLERY

FORMER BUILDING

FORMER PUMP ISLANDS

FORMER TANK FIELD

GRASS

GRASS

GRASS

MW-18

MW-17

RW-2

MW-8

MW-11

MW-13

MW-4R

MW-1R

AS-3

VEW-1R

AS-1

VEW-3

MW-10R

AS-2R

VEW-4

AS-7

MW-12D

MW-2

MW-2

MW-2

MW-2

MW-2

MW-2

MW-2

MW-2

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MW-2



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

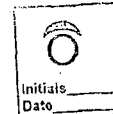
Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

January 19, 2010

Nicholas Barron
Handex Consulting and Remediation, LLC
111 Kelsey Lane, Suite E
Tampa, Florida 33619

Subject: Deliverable Review
Mobil #02-AM5
7008 Little Road
New Port Richey, Pasco County
FDEP Facility ID# 518515011
Site Score: 81
Discharge Date: 12/7/1988



Dear Mr. Barron:

Petroleum Cleanup Section 6 of the Bureau of Petroleum Storage Systems has reviewed the Supplemental Site Assessment Report dated December 30, 2009, received January 5, 2010. This submittal is the final deliverable for preapproval work order # 2009-96-W86979. The deliverable is acceptable and demonstrates that the requirements of the work order have been satisfied. Handex Consulting and Remediation, LLC can now invoice for the balance of the work order.

Based upon the findings of the Supplemental Site Assessment activities, the Department agrees with your recommendation to resume natural attenuation monitoring (NAM). A work order for one quarter of NAM will follow under separate cover.

If you have any questions, please contact me at 850-877-1133, Ext. 3703, through Mail Station 4590 at the letterhead address or by E-mail at tallen@ene.com.

Sincerely,

Tod K. Allen
Site Manager
Ecology & Environment, Inc.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems

Rebecca Lockenbach
FDEP Section Leader
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems

"More Protection, Less Process"
www.dep.state.fl.us

Nicholas Barron
January 19, 2010
Page two

Deliverable Review
Mobil #02-AM5
New Port Richey, Pasco County
FDEP Facility ID# 518515011

Reviewed by:



C. Creed King, P.G.
Ecology & Environment, Inc.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems

1/19/10

Date

/tka

cc: Mr. Michael Meola, Exxon Mobil Corporation, 5224 West SR 46, #339, Sanford, Florida
32771

File

JAR 55547
aefz



December 30, 2009

Mr. Tod K. Allen
Florida Department of Environmental Protection
Petroleum Cleanup Section 6
Mail Station 4590
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
10 JAN -5 PM 1:56
UNDERGROUND STORAGE TANKS
TEAM 6

Re: Supplemental Site Assessment Report
Former Mobil # 02-AM5
7008 Little Road
New Port Richey, Florida
FDEP Facility ID No. 51-8515011
Work Order No. 2009-96-W86979
HCR Project No. 112045.010

Dear Mr. Allen:

Handex Consulting and Remediation – Southeast, LLC (HCR) is pleased to present this Supplemental Site Assessment Report (SSAR) for the above reference site. This SSAR details the results of the soil boring event performed in accordance with the current Work Order (#2009-96-W86979), included as **Appendix A**. The current site priority score is 81 and the site is managed by the Florida Department of Environmental Protection (FDEP). A site plan is included as **Figure 1**.

SITE HISTORY

The site is located in New Port Richey, Florida at the intersection of Little Road and DeCubellis Road. The site was operated as a retail gas station until 2005 when it was purchased by First X Realty, L.P.. Presently the site is vacant. On December 7, 1988, a Discharge Notification Form (DFR) was submitted based on groundwater analytical results. In May 1991 Missimer and Associates Inc. submitted a Contamination Assessment Report (CAR) characterizing the extent of contamination onsite. On May 24, 1991, the site became eligible for state funded cleanup under the Early Detection Incentive (EDI) Program.

In December 1999, six underground storage tanks (USTs) were removed (one 12,000 gallon (gal), one 10,000 gal, two 6,000 gal and one 1,000 gal). During the removal of USTs, milestone monitoring wells, remediation system piping, and remediation system wells were destroyed. In February 2000, FDEP granted approval for Handex of Florida

(Handex) to replace the destroyed wells and install five air sparge (AS) and three soil vapor extraction (SVE) wells for the purpose of active remediation.

Initial active remediation was started on July 21, 1999 and was discontinued on June 16, 2003; the site was then placed into post active remedial monitoring (PARM) and active remediation PARM activities have continued for 19 quarters at the site. The most recent PARM sampling event was conducted on December 2, 2008. The Deliverable Review letter dated March 11, 2009 agreed with HCR's request to be released from any further obligation under the pay for performance agreement. A proposal for a Supplemental Site Assessment was requested and submitted on June 29, 2009. The following SSAR details soil boring activities conducted during September 22, 2009.

SOIL BORING EVENT

On September 22, 2009, Custom Drilling Services Inc was onsite to perform three soil borings (DP-1 through DP-3) under HCR supervision. As outlined in the current Work Order, soil borings were completed via direct push technology, to a total depth of 18 feet below land surface (bls) The soil boring locations are depicted on the site plan (**Figure 1**).

During the soil boring activities, soil samples were collected in glass mason jars and sealed as described in Chapter 62-770.200 (19) Florida Administrative Code (F.A.C.). Samples were screened at two-foot intervals at each boring location to a total depth of 18 ft bls using a Flame Ionization Detector (FID) Organic Vapor Analyzer (OVA). Net OVA data recorded during the soil boring activities are summarized in **Table 1**. OVA results greater than 10 parts per million (ppm) were detected at DP-1, therefore a soil sample was collected from the vadose zone, at 12 ft bls for laboratory analysis. The extent of the vadose zone was determined by referring to the average depth-to-water (DTW) at the site and observed moisture content in the soils during soil boring activities. **Figure 2** presents the net OVA readings from the soil boring event.

The soil sample was sent to Test America Inc (TAI) in Nashville, TN for analysis by USEPA Method 8260 (benzene, toluene, ethylbenzene, and total xylenes [BTEX], and methyl tert-butyl ether [MTBE]) and USEPA Method 8270 (polynuclear aromatic hydrocarbons [PAHs]). Soil analytical results are presented in **Table 2**. Hydrocarbon concentrations from the confirmatory soil sample (DP-1) were below method detection limits, and their respective Chapter 62-777, F.A.C. Table II, Soil Cleanup Target Levels (SCTLs). A copy of the laboratory analytical results is presented in **Appendix B**. **Figure 3** depicts the analytical results of the soil sample collected from DP-1.

Boring logs, submitted to the FDEP on October 30, 2009, are presented in **Appendix C** and describe subsurface lithology.

In addition to completing three soil borings, HCR collected a groundwater sample from each of the borings via screen point sampler at the completion of borehole advancement. The three collected groundwater samples were send to TAI for analysis by USEPA Method 8260 (BTEX + MTBE) and USEPA Method 8270 (PAHs). Groundwater analytical results are presented in **Table 3**.

A review of the September 22, 2009 groundwater analytical data indicates dissolved hydrocarbon concentrations at DP-1, DP-2 and DP-3 were below their respective Chapter 62-777, Table I, Groundwater Cleanup Target Levels (GCTLs). A copy of the laboratory analytical results is presented in **Appendix B. Figure 4** depicts the analytical results of the groundwater samples collected from DP-1, DP-2 and DP-3.

SUMMARY AND RECOMMENDATIONS

Based on the analytical results of the soil boring and groundwater sampling results from the September 22, 2009 site assessment activities, HCR recommends continuing PARM activities for two consecutive quarters. Please note, during the last PARM sampling event conducted on December 2, 2008, concentrations of dissolved hydrocarbons were above GCTLs in monitoring wells MW-1R2 and MW-20 (**Table 3**). HCR proposes the next sampling event occur in January 2010 followed by a report submittal in February 2010.


Once two quarters of PARM sampling produce consecutive groundwater analytical results below GCTLs, PARM sampling will cease. At that time, a Site Rehabilitation Completion Report with a No Further Action proposal will be submitted. If significant increases in BTEX, MTBE, or PAHs concentrations are revealed during future proposed PARM activities, additional remedial activities may be discussed with the FDEP.

HCR appreciates the opportunity to assist the FDEP on this project. If you have any comments or concerns, please contact the undersigned at (813) 626-4646.

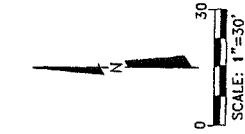
Sincerely,



Nicholas Barron
Permits Coordinator

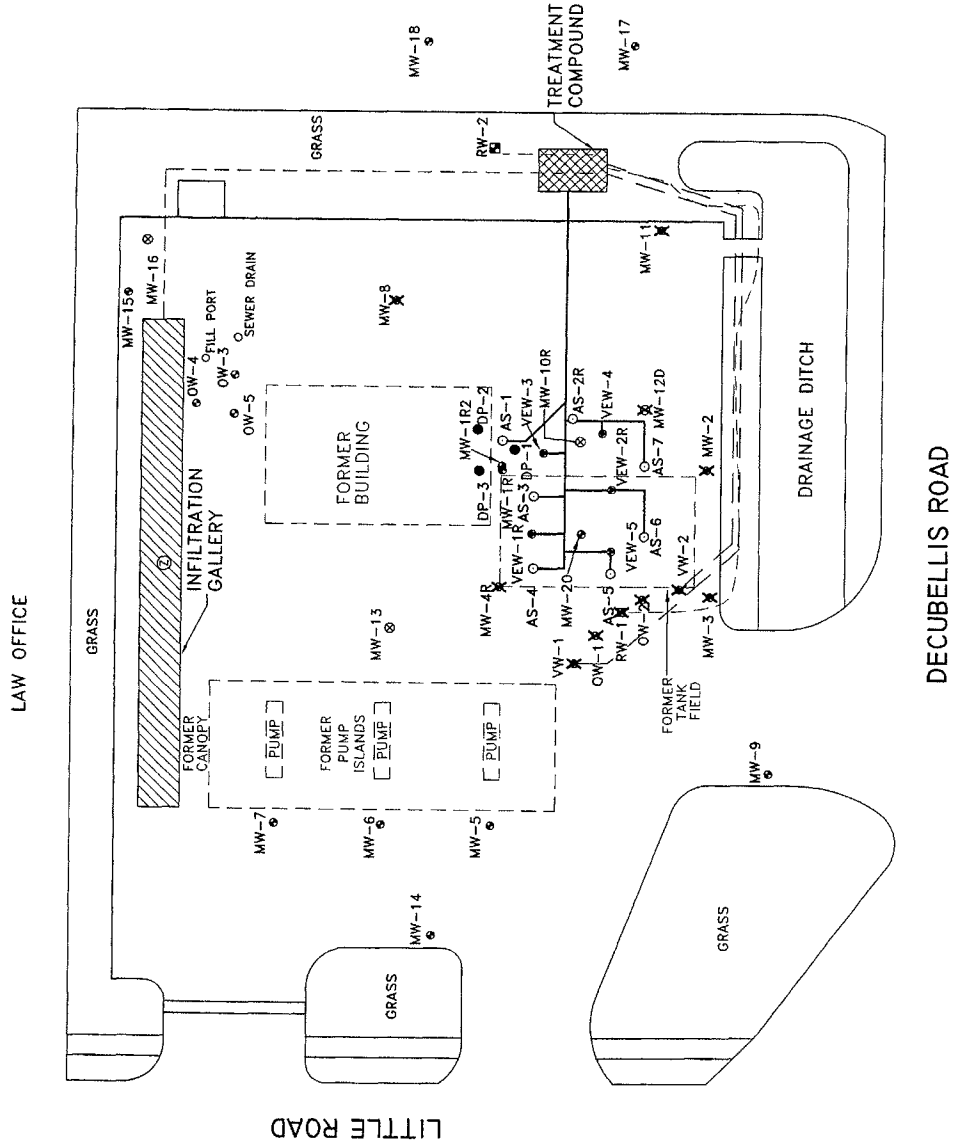


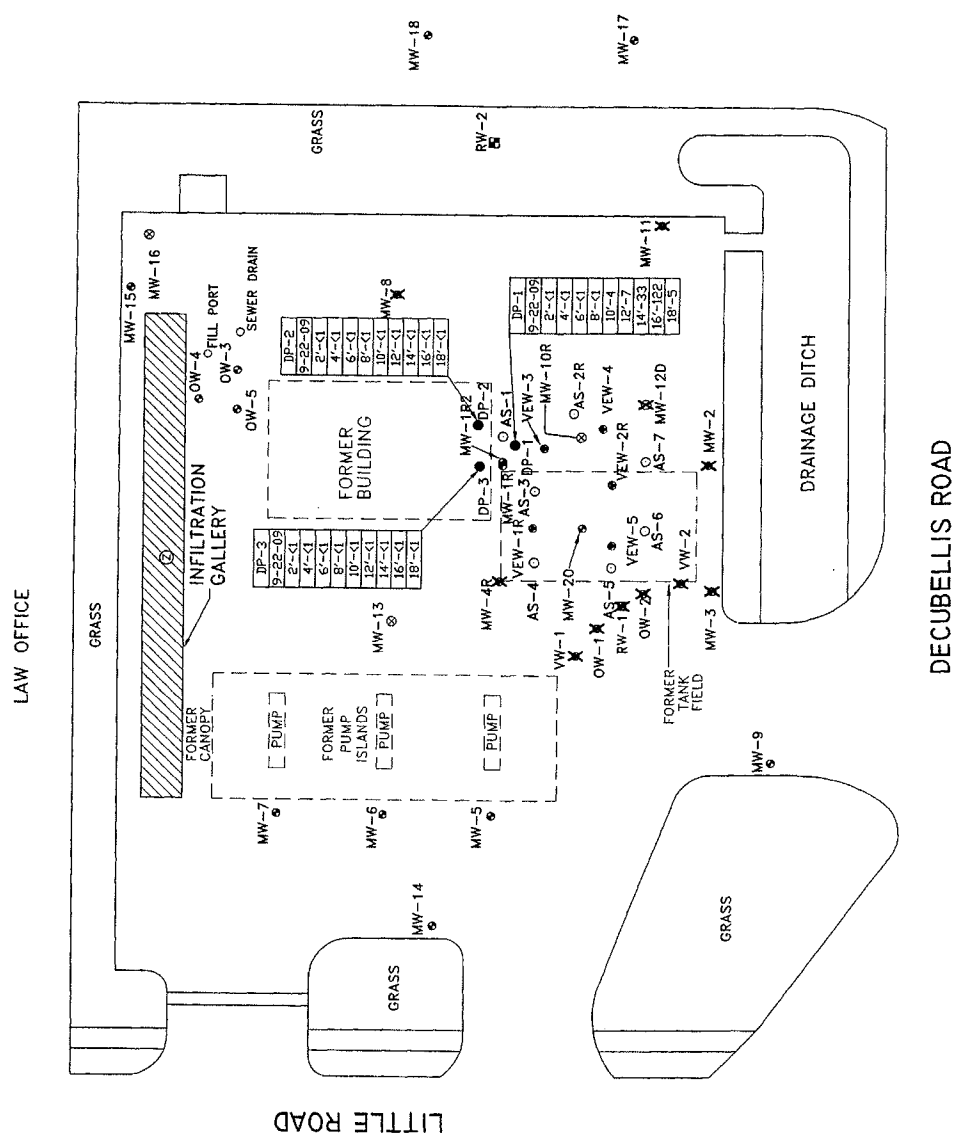
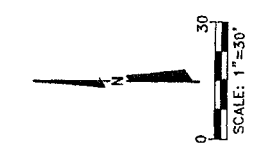
K. Jane Lomas Michals
General Manager



LEGEND

- ⊙ - MONITORING WELL
- ⊗ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊠ - RECOVERY WELL
- ⊖ - VAPOR EXTRACTION WELL
- - AIR SPARGE WELL
- ⊕ - PIEZOMETER
- MW-1R + MW-1R2 - REPLACEMENT WELLS
- X - WELL DESTROYED
- - DIRECT PUSH BORING





LEGEND

- - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊚ - RECOVERY WELL
- ⊖ - VAPOR EXTRACTION WELL
- ⊙ - AIR SPARGE WELL
- ⊙ - PIEZOMETER
- MW-1R + MW-1R2 - REPLACEMENT WELLS
- X - WELL DESTROYED
- - DIRECT PUSH BORING

DEPTH INTERVAL (FEET)

DP-1	9-22-09
DP-2	2'-4"
DP-3	5'-4"
DP-4	8'-4"
DP-5	10'-4"
DP-6	12'-7"
DP-7	14'-33"
DP-8	16'-102"
DP-9	18'-5"

ppm - PARTS PER MILLION

- - DIRECT PUSH SAMPLE I.D.
- - DATE SAMPLED
- - NET OVA FD HEADSPACE RESULTS IN (ppm)

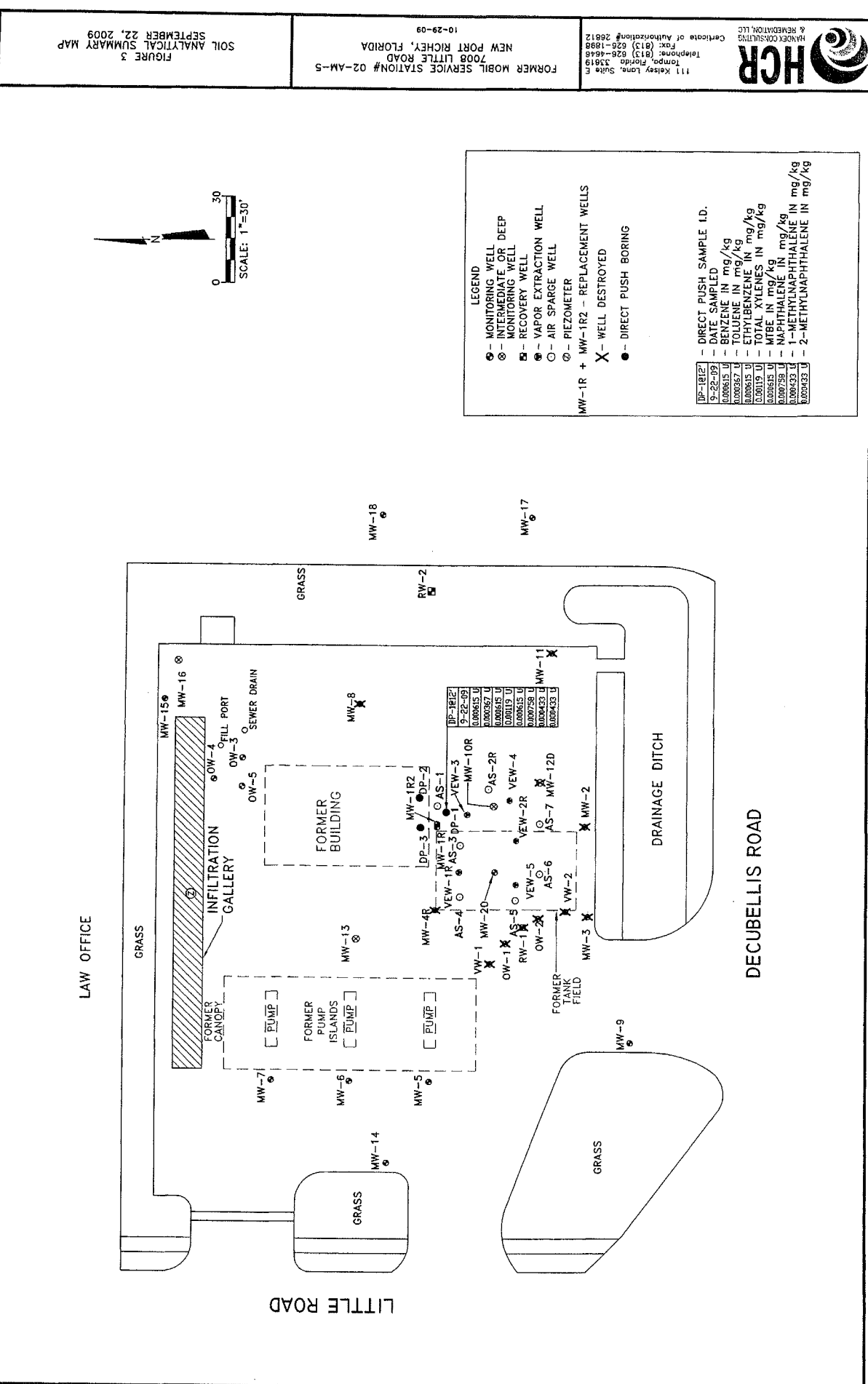


FIGURE 3
SOIL ANALYTICAL SUMMARY MAP
SEPTEMBER 22, 2009

FORMER MOBIL SERVICE STATION# 02-AM-5
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
10-29-09

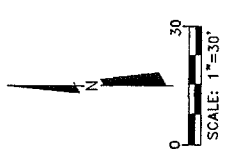
111 Kelsey Lane, Suite n
Tampa, Florida 33619
Telephone: (813) 838-4848
Fax: (813) 826-1898
Certificate of Authorization # 28612
HCR
HARDCO CONSULTING & REMEDIATION, LLC

LEGEND

- - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊞ - RECOVERY WELL
- ⊕ - VAPOR EXTRACTION WELL
- ⊖ - AIR SPARGE WELL
- ⊗ - PIEZOMETER
- MW-1R + MW-1R2 - REPLACEMENT WELLS
- X - WELL DESTROYED
- - DIRECT PUSH BORING

DP-1B12

- DIRECT PUSH SAMPLE I.D.
- DATE SAMPLED
- BENZENE IN mg/kg
- TOLUENE IN mg/kg
- ETHYLBENZENE IN mg/kg
- TOTAL XYLENES IN mg/kg
- MTBE IN mg/kg
- NAPHTHALENE IN mg/kg
- 1-METHYLNAPHTHALENE IN mg/kg
- 2-METHYLNAPHTHALENE IN mg/kg





HANDEX[®]

Practical Environmental Solutions

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BUREAU OF PETROLEUM
STORAGE SYSTEMS
DOCUMENT MANAGEMENT
CENTER

REMEDIATION SYSTEM STATUS REPORT

August 4, 2001 through October 16, 2001

MOBIL 02-AM5

7008 LITTLE ROAD

NEW PORT RICHEY, FLORIDA

FDEP FACILITY ID # 518515011

WORK ORDER # 2000-00-5361-0

HANDEX PROJECT # 112045.005

Prepared for:

Exxon Mobil Oil Corporation

Sanlando Center 2180 West

SR-434, Suite 1160

Longwood, Florida 32779

Prepared by:

HANDEX OF FLORIDA, INC.

111 Kelsey Lane

Suite E

Tampa, Florida 33619

(813) 626-4646

Joseph Lundquist

Senior Engineer

11/19/01

DATE

Donald J. Price, P.E.

Project Manager

11/19/01

DATE

Bureau of Petroleum
Storage Systems
Nov 26 2001
Petroleum Cleanup
Section #2:

1.0 INTRODUCTION

This report presents a summary of activities conducted at Mobil 02-AM5. The site is located at 7008 Little Road, New Port Richey, Pasco County, Florida. A site plan of the facility is presented as Figure 1. The existing system, consisting of groundwater and soil remediation via air sparging and soil vapor extraction, was started on March 8, 2000, under Petroleum Preapproval Program Change Order Number 2000-00-5361-1. Copies of the original Florida Department of Environmental Protection (FDEP) Work Order Number 2000-00-5361-0 and the previously-mentioned Change Order Number 2000-00-5361-1 are included in Appendix A.

As noted in previous reports, the original air sparging and soil vapor extraction system was started on July 21, 1999 and operated until the USTs and associated product lines were removed on December 27th and 28th, 1999. A tank closure report was submitted to the Pasco County Health Department on March 3, 2000. During the tank removal event, approximately 26.25 tons of petroleum-contaminated soils were removed and properly treated offsite. MW-1, MW-2, MW-3, MW-4, MW-10, MW-12D, VEW-1, VEW-2, VEW-3, VEW-4, AS-2, RW-1, OW-1, OW-2, and associated piping were destroyed during the UST removal event. VEW-1 and VEW-2 were installed in new locations, based on the soil boring assessment, to optimize their performance. MW-20 (in center of former tank field) was substituted for RW-1, OW-1, OW-2, MW-2, and MW-3. MW-12D was not replaced. The designated key monitoring wells are now MW-1R and MW-10R. The perimeter monitoring wells are now MW-4R, MW-8, MW-11, and MW-20.

During mid to late February 2000, MW-1, MW-4, MW-10, AS-2, VEW-3, and VEW-4 were all replaced in the locations they were in prior to being damaged. Their construction details were not changed from their original specifications. MW-20 was installed in the center of the former tank field, as required by the work order. During the well installation event, a total of 11 soil borings were advanced to approximately 28 feet

below land surface (bls). The purpose of the soil borings was to assess the former tank pit and determine whether additional vapor extraction wells and/or air sparging wells should be added to the system. A total of five additional air sparging wells (AS-3 through AS-7) and three additional vapor extraction wells (VEW-1R, VEW-2R, and VEW-5) were installed in the former tank field area.

The expanded remediation system, consisting of seven air sparge wells (AS-1 through AS-7) and five vapor extraction wells (VEW-1 through VEW-5), was restarted on March 8, 2000. No changes were made to the remediation equipment in the equipment compound, except for expanding the air sparge manifold from two ports to seven, and expanding the SVE manifold from four legs to five legs. As approved in the Remedial Action Modification Plan (RAMP), submitted to the FDEP on March 8, 2000, the *expanded system operating parameters have changed from the existing system parameters*. The compressor will provide a maximum flowrate of 17 cfm at 10 psig, or 2.4 cfm per per air sparge well. The SVE blower is capable of 350 cfm up to 7.5 inches Hg. At a design wellhead vacuum of 25 inches H₂O (from pilot test) the expected flowrate is 100 cfm. To operate all five SVE legs simultaneously, the blower requirements are 100 cfm at 3.4 inches Hg, which is within the capacity of the existing blower.

2.0 GROUNDWATER REMEDIATION SYSTEM: GENERAL

The groundwater and soil remediation system consists of an air sparge system that utilizes a 2-hp rotary vane type air compressor to supply air to seven air sparging wells (AS-1 through AS-7). Sparged hydrocarbons are recovered by a centrifugal-type Soil Vapor Extraction (SVE) blower from five vertical vapor extraction wells (VEW-1 through VEW-5). The remedial system is summarized in Table 1.

2.1 Operation and Maintenance

The operation and maintenance visits for the reporting period are summarized in Table 2. The performance summary of the Air Sparging and Soil Vapor Extraction system (AS/SVE) is summarized in Table 3.

2.2 Groundwater Quality Monitoring

On September 7, 2001, groundwater samples were collected from MW-1R, MW-10R, and MW-20 to be analyzed for EPA Method 602 (benzene, toluene, ethylbenzene, and total xylenes [BTEX] and methyl tert-butyl ether [MTBE]) constituents. Historical laboratory analytical data is summarized in Table 4 (see Appendix B for laboratory analytical reports). Figure 2 is a dissolved hydrocarbon map showing the groundwater concentrations of benzene, total volatile organic aromatics (TVOA), methyl tert-butyl ether (MTBE), and total naphthalenes from the most recent sampling events. Groundwater sampling field data sheets are included in Appendix C. Results indicate

that a slight "rebound" in total xylenes concentration has occurred in MW-1R during the most recent sampling event on September 7, 2001, as compared to the previous sampling event performed on May 16, 2001. The most recent sampling event was meant to serve as a "snapshot" to monitor system performance, rather than to satisfy the sampling requirements outlined in the pay-for-performance work order. Refer to Table 4 for a summary of all the historical laboratory analytical data.

2.3 Water Table Elevation Monitoring

Depth to water measurements were collected from MW-1R, MW-10R, and MW-20 during the September 7, 2001 Operation and Maintenance (O&M) event. The depth to water measurements were used with the relative top-of-casing elevations to calculate water-table elevations. A groundwater elevation map, constructed from the data collected on September 7, 2001, is presented as Figure 3. A groundwater elevation contour map could not be developed since only two shallow and one deep monitoring well was gauged during the sampling event. Water-table measurement data and elevation data are presented in Table 5.

2.4 Dissolved Oxygen Monitoring

Dissolved oxygen measurements are collected from the designated groundwater monitoring wells during the O&M visits. The dissolved oxygen measurements are used to evaluate the performance of the remedial system. Dissolved oxygen measurements collected on September 7, 2001 and October 16, 2001, as well as historical measurements are presented in Table 6.

2.5 Air Sparge System Performance Monitoring

A summary of the air sparging wells, including injection pressures and airflow rates are presented in Table 7.

3.0 SOIL REMEDIATION SYSTEM

The SVE system consists of five vertical vacuum extraction wells, a moisture separator, and a centrifugal blower. The SVE system performance is summarized in Table 3. Vacuum, Organic Vapor Analyzer (OVA), and airflow data are summarized in Table 8. Historical SVE offgas laboratory analysis data are summarized in Table 9. SVE vacuum influence data are summarized in Table 10. Historical SVE Mass emission rate estimates are summarized in Table 11.

4.0 RECOMMENDATIONS

- Continue to operate the air sparge and SVE systems
- Continue monthly O&M visits
- Eventually perform milestone sampling at key and perimeter monitoring wells, as outlined in the pay for performance work order

112045.005

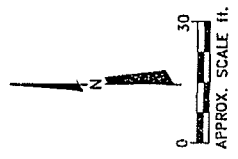
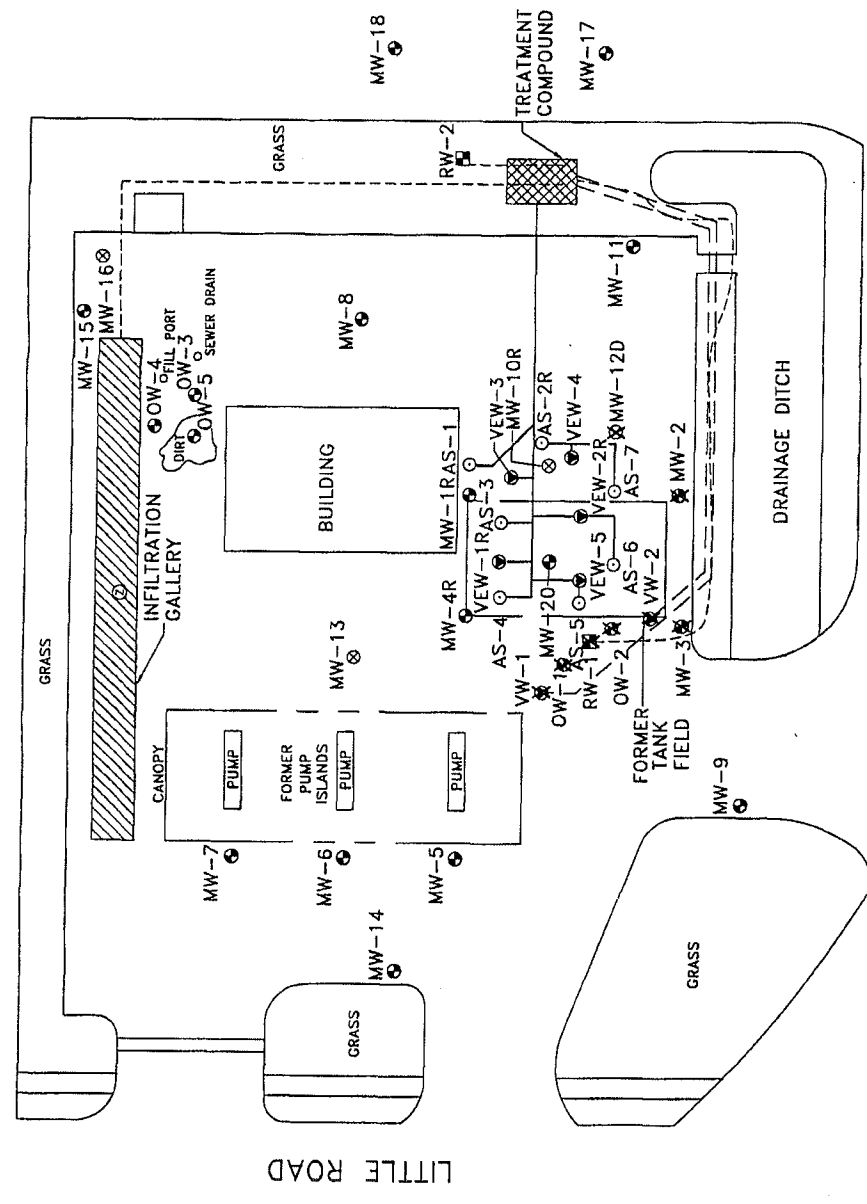
TPA: S:\CAD\DATA\HANDEX\PA&S\02-AMSOIL\DWG 1.TITRAT00A

FIGURE 1
SITE PLAN

MOBIL SERVICE STATION #02-AMS
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
11-18-01



LAW OFFICE

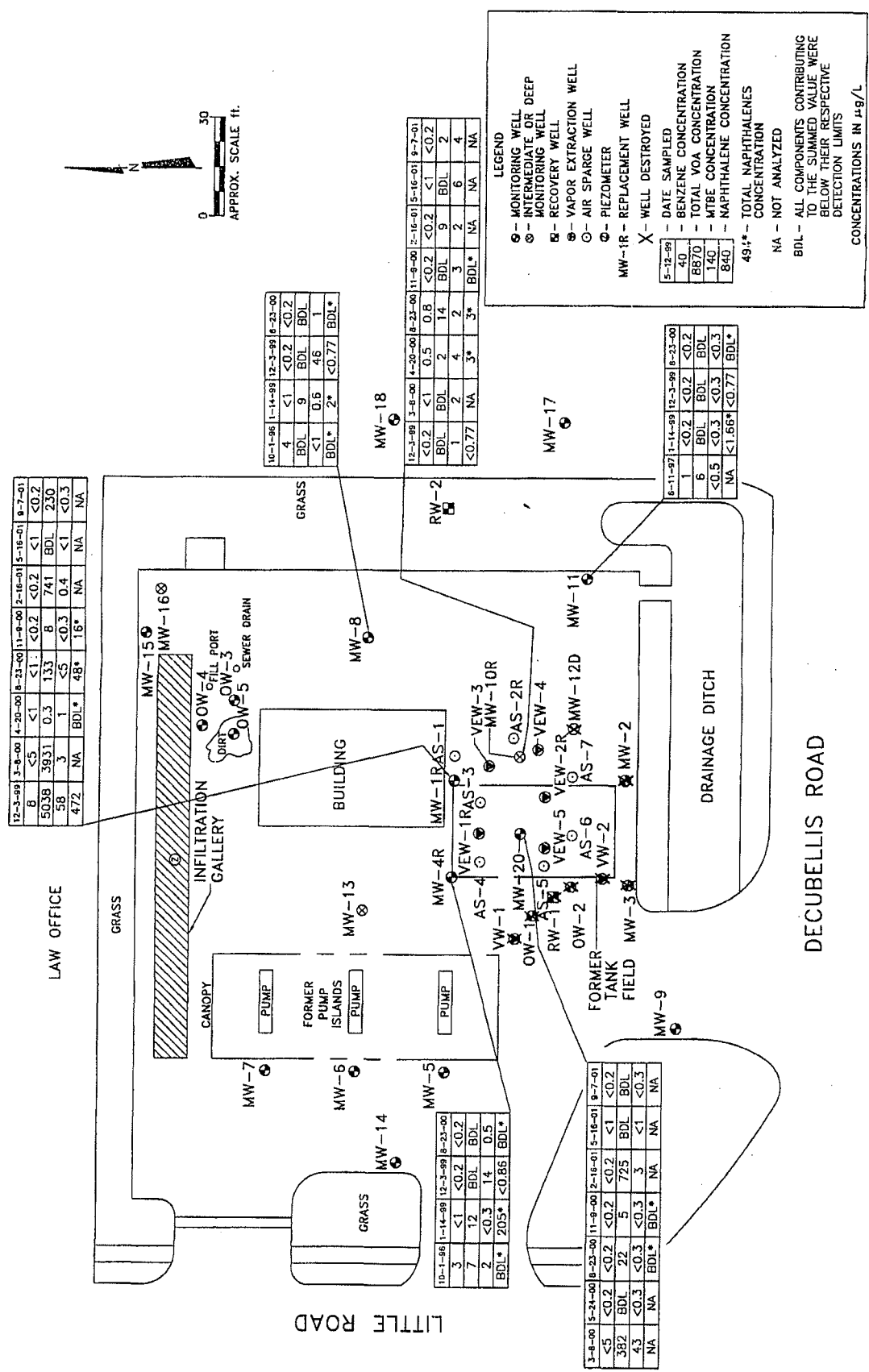


LEGEND

- - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊕ - RECOVERY WELL
- ⊖ - VAPOR EXTRACTION WELL
- ⊗ - AIR SPARGE WELL
- ⊚ - PIEZOMETER
- ⊙ - MW-1R - REPLACEMENT WELL
- X - WELL DESTROYED

DECUBELLIS ROAD

LITTLE ROAD



12-3-98	3-8-00	4-20-00	8-23-00	11-9-00	2-16-01	5-16-01	8-7-01
8	<5	<1	<1	<0.2	<0.2	<1	<0.2
5038	3931	0.3	133	8	741	BDL	250
58	3	1	<5	<0.3	0.4	<1	<0.3
472	NA	BDL*	48*	16*	NA	NA	NA

10-1-96	1-14-98	12-3-99	8-23-00	8-23-00	8-23-00	8-23-00	8-23-00
4	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BDL	9	BDL	BDL	BDL	BDL	BDL	BDL
BDL*	2*	46	1				
		<0.77	BDL*				

12-3-98	3-8-00	4-20-00	8-23-00	11-9-00	2-16-01	5-16-01	8-7-01
<0.2	<1	0.5	0.8	<0.2	<0.2	<1	<0.2
BDL	BDL	2	14	BDL	9	BDL	2
1	2	4	2	3	2	6	4
<0.77	NA	3*	3*	BDL*	NA	NA	NA

8-11-97	1-14-99	12-3-99	8-23-00
1	<0.2	<0.2	<0.2
6	BDL	BDL	BDL
<0.5	<0.3	<0.3	<0.3
NA	<1.66*	<0.77	BDL*

LEGEND

- - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊚ - RECOVERY WELL
- ⊛ - VAPOR EXTRACTION WELL
- ⊜ - AIR SPARGE WELL
- ⊝ - PIEZOMETER
- MW-1R - REPLACEMENT WELL
- X - WELL DESTROYED

DATE SAMPLED

- 40 - BENZENE CONCENTRATION
- 8870 - TOTAL VOA CONCENTRATION
- 140 - MTBE CONCENTRATION
- 840 - NAPHTHALENE CONCENTRATION

491* - TOTAL NAPHTHALENES CONCENTRATION

NA - NOT ANALYZED

BDL - ALL COMPONENTS CONTRIBUTING TO THE SUMMED VALUE WERE BELOW THEIR RESPECTIVE DETECTION LIMITS

CONCENTRATIONS IN µg/L

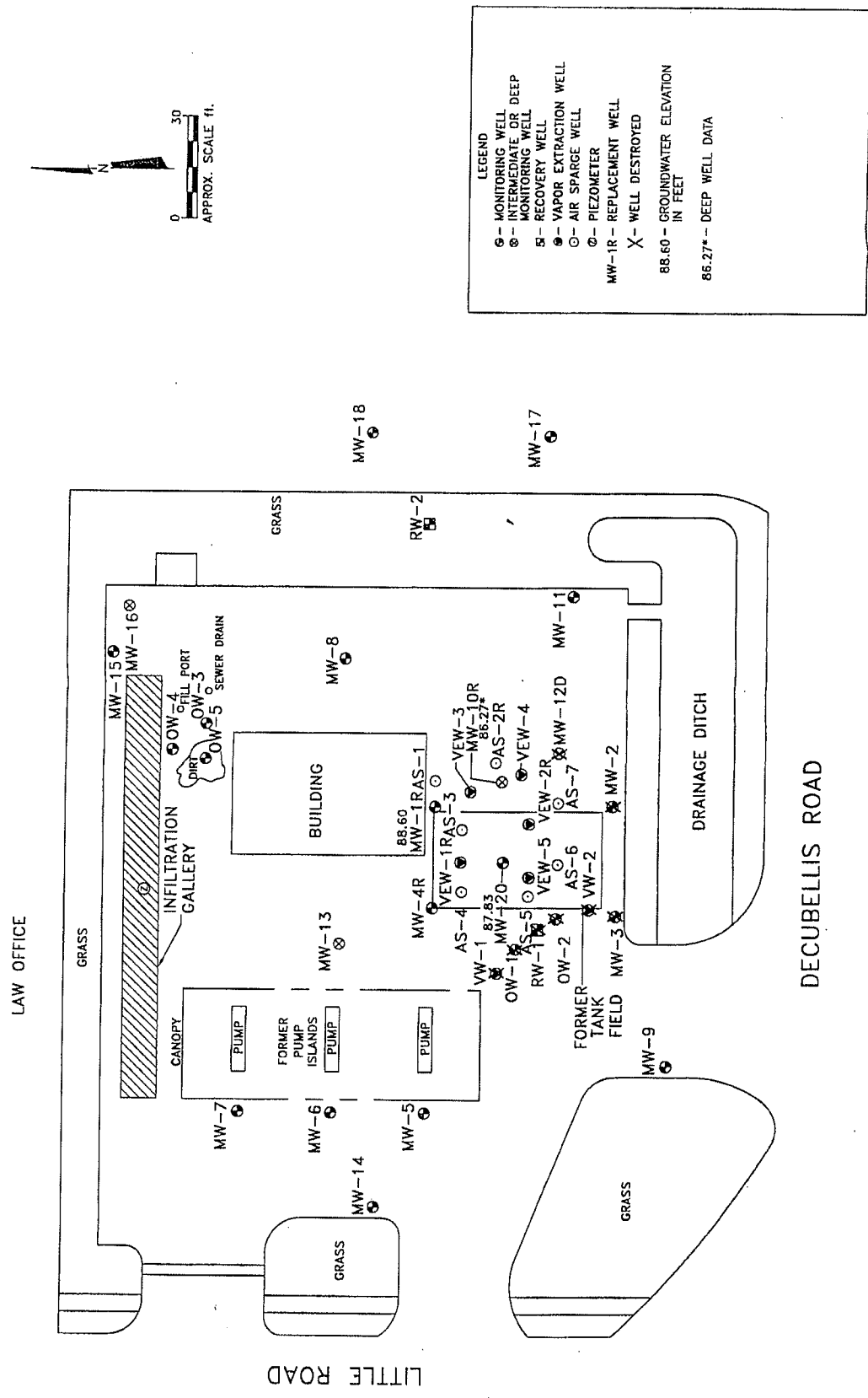
NOTE: ALL DATA PRIOR TO 3/8/00 IS FROM "ORIGINAL" WELL LOCATIONS. ALL DATA FROM 3/8/00 FORWARD IS FROM "REPLACEMENT" LOCATIONS.

112045.005

TPA, SA, CADDATA, HANDEX, P&S, 02-AMSCAD, DWG, 1, TPA19184M

FIGURE 3
GROUNDWATER
ELEVATION
MAP
SEPTEMBER 7, 2001

MOBILE SERVICE STATION #02-AMS
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA
11-19-01



LEGEND

- ⊕ - MONITORING WELL
- ⊙ - INTERMEDIATE OR DEEP MONITORING WELL
- ⊗ - RECOVERY WELL
- ⊖ - VAPOR EXTRACTION WELL
- ⊕ - AIR SPARGE WELL
- ⊖ - PIEZOMETER
- MW-1R - REPLACEMENT WELL
- X - WELL DESTROYED
- 88.60 - GROUNDWATER ELEVATION IN FEET
- 86.27* - DEEP WELL DATA

MB/ENG.

H₂O Environmental, Inc.
Assessment & Remediation Specialists

Bureau of Waste Cleanup

D.E.R.

June 18, 1993

JUN 30 1993

JUN 21 1993

Technical Review Section

SOUTHWEST DISTRICT
TAMPA

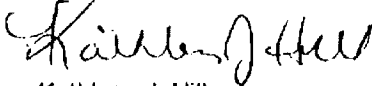
Ms. Nancy Evans
Florida Department of Environmental Regulation - Southwest District
3804 Coconut Palm
Tampa, FL 33619

RE: Mobil S/S #02-AM5
7008 Little Road
New Port Richey, FL
Project No. 1053.2090
FDER #518515011
EPA #N/A

Dear Ms. Evans:

Enclosed is the Closure Report for the closure of the Class V Injection Well (bay drain system) at the above referenced facility. All closure activities were conducted in accordance with Appendix G of the EPA consent Order. If you have any questions or require additional information, please do not hesitate to contact me at (813) 497-7717.

Sincerely,
H₂O Environmental, Inc.



Kathleen J. Hill
Environmental Engineer

KJH/kjh

Attachment

cc: Jon Cantor - Mobil Oil Corporation

Bureau of Waste Cleanup

JUN 30 1993

Technical Review Section

CLOSURE REPORT

Prepared for:

**MOBIL OIL CORPORATION
600 North Westshore Boulevard
Suite 605
Tampa, Florida 33609**

Prepared by:

**H₂O ENVIRONMENTAL, INC.
745 Shamrock Boulevard
Venice, Florida 34293**

and

**R.S. YATES, INC.
P.O. Box 1725
Pompano Beach, Florida 33061**

**MOBIL S/S # 02-AM5
7008 Little Road
New Port Richey, Florida
Project No. 1053.2090**

June 1993

D. E. R.

JUN 21 1993

SOUTHWEST DISTRICT
TAMPA

RRH
6/18/93

SECTION 1 INTRODUCTION

H₂O Environmental, Inc., was contracted by Mobil Oil Corporation to conduct closure of the oil/water separator and drainfield at the closed Mobil S/S #02-AM5 located at 7008 Little Road, New Port Richey, Pasco County, Florida. Since this facility is closed, no telephone is connected. The closure, as required by Subparagraphs 40 (a) and (c) of the consent order, was performed in accordance with Appendix G of the EPA Consent Order, Closure Plan for 5 x 28 Facilities. The EPA Consent Order has been included as Appendix E of this report. Prior to closure activities, the Pasco County Public Health Unit was notified of the proposed work to be conducted at the facility. Pasco County did not require any regulatory involvement during excavation and removal activities.

The bay drains at this facility had been previously plugged with concrete by others. Closure activities included removal and proper disposal of the liquids from the oil/water separator, excavation and removal of the oil/water separator and drainfield, installation of a monitoring well in the former excavation, and post-excavation contamination assessment. All liquids were disposed in accordance with local, State, and Federal regulations.

SECTION 2 INITIAL INVESTIGATION

On February 4, 1993, an initial site investigation was conducted to determine the discharge location of the bay drain system. The bay drains were determined to be connected to an oil/water separator which contained liquids only. Since no sludges were present, sludge sampling was not required.

SECTION 3 CLOSURE METHODOLOGY

Excavation and removal of the oil/water separator and drainfield was conducted on April 7, 1993. A site plan denoting the oil/water separator and drainfield locations and the site photographs are included in Appendices A and D, respectively. Prior to excavation, all liquids were pumped from the oil/water separator by Magnum Tank Service, Inc., and the structure was pressure washed. All rinse liquids were removed for proper disposal. A total of 740 gallons of liquid were pumped out for disposal by Magnum Tank Service. The liquid disposal manifest is included in Appendix C.

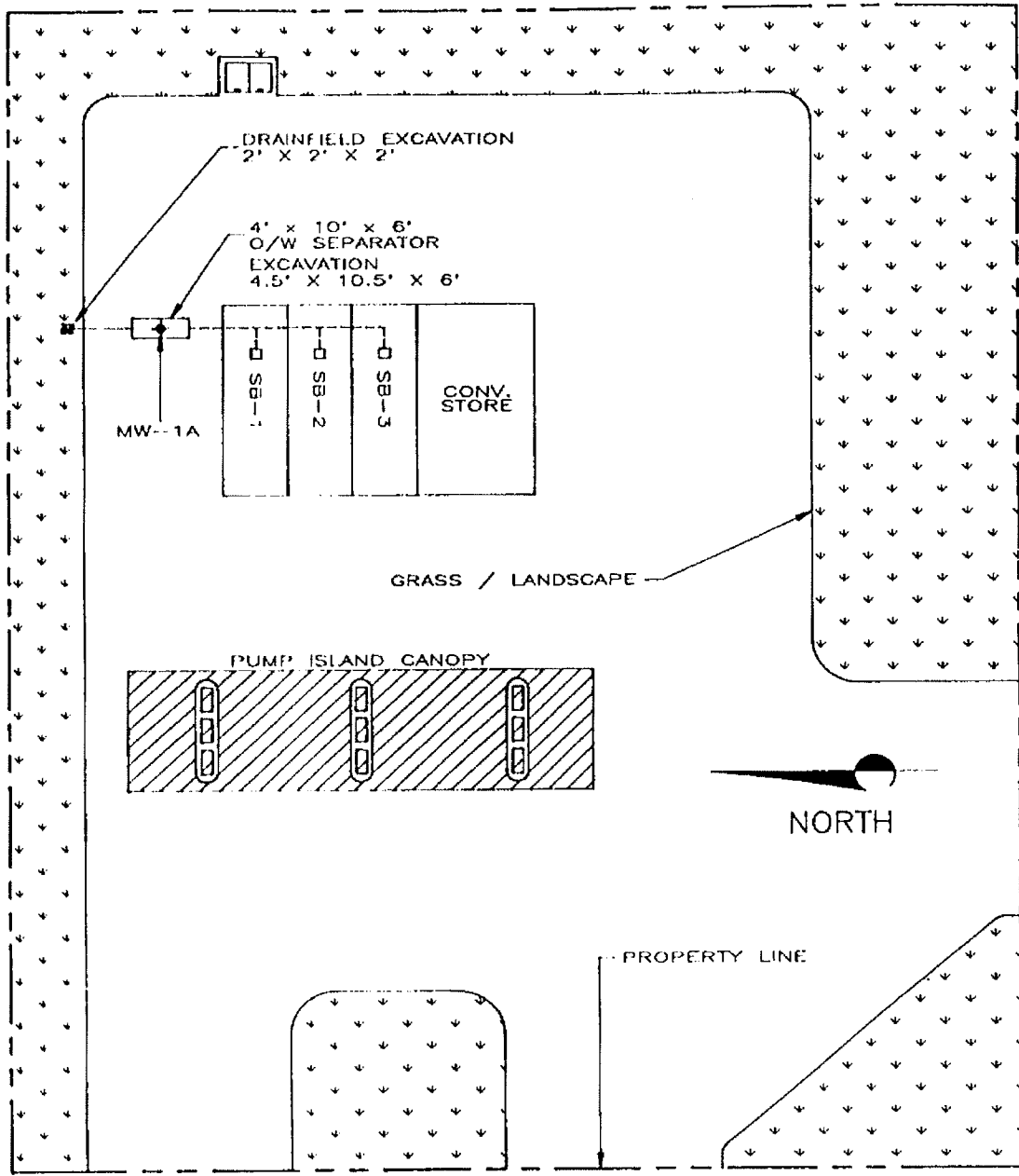
The 4' x 10' x 6' oil/water separator and the drainfield were excavated and removed. No visibly contaminated soils were encountered in the 4.5' x 10.5' x 6' oil/water separator excavation or the 2' x 2' x 2' drainfield excavation. The oil/water separator was constructed with concrete walls and bottom. The drainfield consisted on a 4-inch drainage pipe surrounded by 3/4-inch rock. One composite soil sample was collected from the oil/water separator excavation for EPA 8240 analysis by Toxikon Laboratory. The water table was not encountered during excavation activities.

One 2-inch monitoring well (MW-1A) was installed on April 22, 1993, in the oil/water separator excavation as illustrated in Appendix A. Groundwater samples were collected on April 29, 1993, from MW-1A for EPA Methods 624/625/418.1 and RCRA Metals (Arsenic, Cadmium, Chromium, and Lead) analysis by Toxikon Laboratory. All soil and groundwater analytical results are included in Appendix B.

SECTION 4 CONCLUSIONS

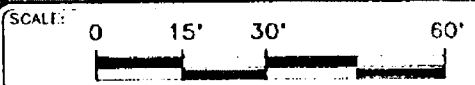
All liquids were removed from the oil/water separator and the structure was pressure washed prior to excavation. No visibly contaminated soils were encountered during excavation of the oil/water separator or drainfield. No county inspection of the excavation was required.

The laboratory analytical results from the excavation composite sample verified that all analyzed parameters were below the Chapter 17-775.400 F.A.C. "Clean Soil Criteria." Based on the groundwater analysis, all analyzed parameters were below the Site Rehabilitation Levels (SRL), Maximum Contaminant Levels (MCL), and 1989 Groundwater Guidance Concentrations.



SB-1 SERVICE BAY

LITTLE ROAD



H₂O ENVIRONMENTAL, INC.
ASSESSMENT & REMEDIATION SPECIALISTS

R.S. Yates, P.E., Inc.

PREPARED FOR: MOBIL OIL CORPORATION

SITE ADDRESS: STATION No. 02-AM5
7008 LITTLE ROAD
NEW PORT RICHEY, FLORIDA

FIGURE TITLE: **SITE MAP**

JOB NO.: 1053.2090

DRAWN BY: C. LANE

DATE DRAWN: 5-4-93

FIGURE NUMBER: 1



MISSIMER & ASSOCIATES, INC.

Environmental and Groundwater Services

5909-D Hampton Oaks Parkway
Tampa, Florida 33610

(813) 623-5123
Fax (813) 620-4586

May 15, 1992

Mr. Michael Bland
Florida Department of Environmental Regulation
Bureau of Waste Cleanup
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Mobil S/S# 02-AM5 CAR
Supplemental Assessment Report
DER Facility ID 518515011

Dear Mr. Bland:

Attached for your review are the results of the supplemental assessment required by the Bureau of Waste Cleanup (BOWC) in correspondence dated April 30, 1992. A copy of the correspondence is attached for your reference. Our response and clarifications are presented below, following restatement of your comments (in bold type).

COMMENT:

An additional water-table monitoring well should be installed approximately 50 feet southwest of MW-5 in order to better define the horizontal extent of groundwater contamination.

RESPONSE:

On May 11, 1992, Missimer & Associates, Inc. (M&A) supervised the construction of MW-19 (Figure 1). Monitor well 19 was constructed using 4.25 inch inside diameter hollow-stem augers. Construction materials and specifications are in Figure 2.

COMMENT:

Following the installation of the additional monitoring well, MW-12 and the new well should be sampled and analyzed for EPA Method 602 (including MTBE) so that this review can be completed and a Remedial Action Plan (RAP) prepared based on



MISSIMER & ASSOCIATES, INC.
Environmental and Groundwater Services

Mr. Michael Bland
May 15, 1992
Page 2

comprehensive data. An additional vertical extent well, with a deeper isolated screen interval than MW-12, should be installed adjacent to MW-12 if significant contaminant concentrations are detected at MW-12.

RESPONSE:

On May 1, 1992, M&A collected a groundwater sample from MW-12 (Figure 1) for analysis by EPA Method 602. Analytical results indicated a benzene concentration of 71 micrograms per liter (ug/l), a total volatile organic aromatic (VOA) concentration of 116 ug/l, and a methyl tert-butyl ether (MTBE) concentration of 340 ug/l (Table 1). As Table 1 indicates, benzene and MTBE concentrations have decreased since February, 1992.

The lab results from MW-12 were discussed with the BOWC on May 4, 1992. After reviewing the data, the BOWC informed M&A that an additional deep monitor well adjacent to MW-12 would not be required. Laboratory Certificates of Analysis are attached for your files.

On May 12, 1992, M&A collected a groundwater sample from MW-19 for analysis by EPA Method 602. Analytical results indicated that all EPA Method 602 compounds were undetected at a method detection limit of 1 ug/l (Table 1). Laboratory results are attached for your files.

Thank you for your assistance with this project. Please do not hesitate to contact our office if you have any questions.

Sincerely,

Dale R. Jenkins, P.G.
Licensed Professional
Geologist No. 1286
Date: 5/15/92

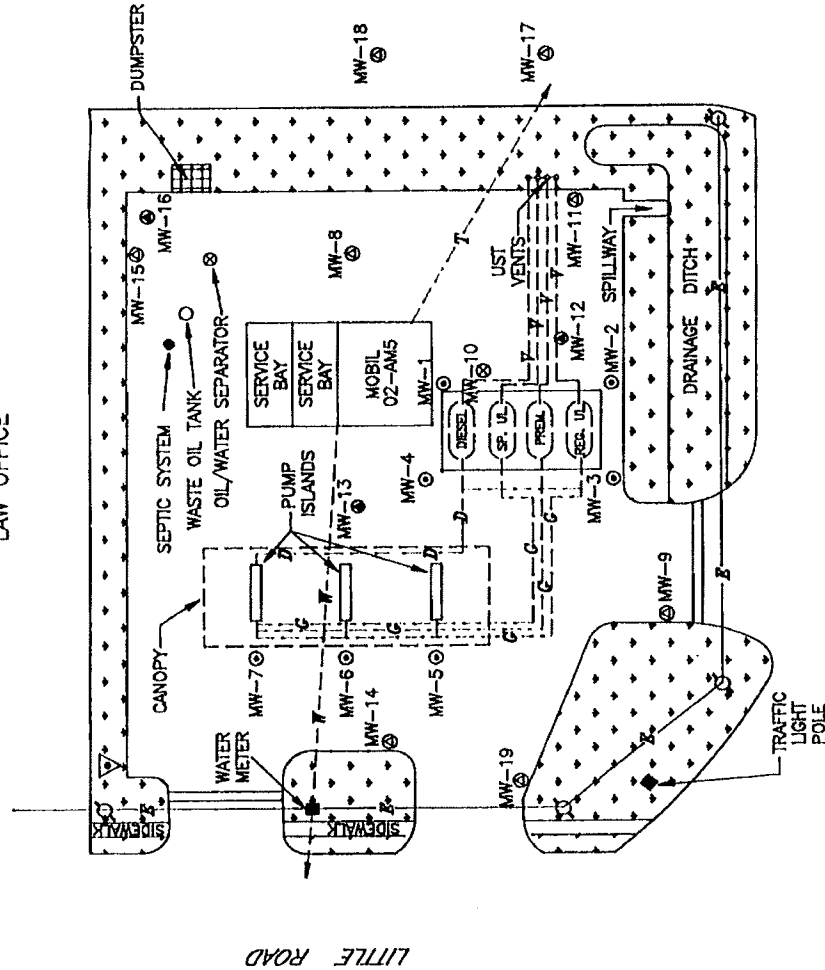
DRJ:lk
TE1-370

enc.

cc: ~~Mr. Jonathan Cantor, Mobil Oil Corporation~~

▽ (APPROXIMATE LOCATION)

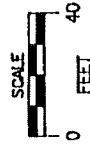
LAW OFFICE



DECUBELLIS ROAD

LEGEND

- | | | |
|-------|---|---|
| MW-1 | ○ | COMPLIANCE WELL LOCATION AND NUMBER |
| MW-8 | ⊙ | SHALLOW MONITOR WELL LOCATION AND NUMBER |
| MW-10 | ⊗ | INTERMEDIATE MONITOR WELL LOCATION AND NUMBER (SCREENED FROM 25 TO 30 FT. BELOW LAND SURFACE) |
| MW-12 | ⊕ | DEEP MONITOR WELL LOCATION AND NUMBER (SCREENED FROM 42 TO 47 FT. BELOW LAND SURFACE) |
| —E— | | O/H ELECTRIC LINE |
| —W— | | U/G WATER LINE |
| —T— | | U/G TELEPHONE LINE |
| —F— | | FUEL DISTRIBUTION |
| —D— | | DIESEL DISTRIBUTION |
| —V— | | UST VENT LINES |
| ⊕ | | POWER POLE |
| ▽ | | IRRIGATION WELL |



MSA

ENVIRONMENTAL AND GROUNDWATER SERVICES

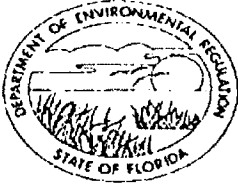
Missimer & Associates Inc.

DRN. BY: MLL DWG NO. B-T1370ST-1 DATE: 03/29/92

PROJECT NUMBER: TE1-370

PROJECT NAME: MOBIL S/S# 02-AMS

FIGURE 1. SITE MAP AND MONITOR WELL LOCATIONS; MOBIL S/S# 02-AMS.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

April 30, 1992

Mr. Jonathan Cantor
Mobil Oil Corporation
500 North Westshore Boulevard
Suite 605
Tampa, Florida 33609

RE: Mobil #02-AM5
7008 Little Road
New Port Richey, Florida
DER Facility #518515011

RECEIVED

MAY - 8 1992

**MISSIMER &
ASSOCIATES**

Dear Mr. Cantor:

The Bureau of Waste Cleanup has reviewed the Contamination Assessment Report (CAR) Addendum dated April 13, 1992 (received April 14, 1992), submitted for this site. In order to meet the requirements of Chapter 17-770, Florida Administrative Code (F.A.C.), the following comments need to be addressed:

- (1) An additional water-table monitoring well should be installed approximately 50 feet southwest of MW-5 in order to better define the horizontal extent of groundwater contamination.
- (2) Following the installation of the additional monitoring well, MW-12 and the new well should be sampled and analyzed for EPA Method 602 (including MTBE) so that this review can be completed and a Remedial Action Plan (RAP) prepared based on comprehensive data. An additional vertical extent well, with a deeper isolated screen interval than MW-12, should be installed adjacent to MW-12 if significant contaminant concentrations are detected at MW-12.

The DER Facility Number for this site is 518515011. Please use this identification on all future correspondence with the Department.

Please provide the results of the supplemental assessment to me within sixty (60) days of receipt of this request. If additional time is needed, a time extension request should be submitted, in accordance with Rule 17-770.800(6), F.A.C. If you should have any questions concerning this review, please contact me at (904) 488-0190.

Mr. Cantor
April 30, 1992
Page Two

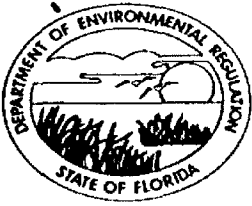
Please note, all supplemental contamination assessment related documents should be signed and sealed by a registered professional in accordance with Rule 17-770.500, F.A.C. The certification should be made by a registered professional who is able to demonstrate competence in the subject area(s) addressed within the sealed document.

Sincerely,



Michael J. Bland, P.G.
Technical Review Section
Bureau of Waste Cleanup

cc: *Dale R. Jenkins, Missimer & Associates - Tampa
Maura Sweeney, Pasco County Health Department



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

February 26, 1992

RE: Mobil #02-AM5
DER Facility I.D. #518515011
Incident Date: October 23, 1991

Dear Eligible Party:

You have been found eligible for state cleanup assistance for the above incident. The following discussion describes procedures and requirements for reimbursement of the cost of cleanup of petroleum or petroleum product contamination under the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP).

There are two options within the FPLIRP program -- reimbursement and state cleanup. In order to enter the reimbursement portion of the program, you must submit to the Bureau of Waste Cleanup a letter of intent to apply for reimbursement at the letterhead address. State cleanup for incidents occurring after July 1, 1991 and for the Abandoned Tank Restoration Program is only available to small businesses or corporations not for profit. To qualify, the enclosed affidavit must be completed and returned.

Sites eligible for FPLIRP have the option of switching between the reimbursement program and the state cleanup program. If you consider switching from reimbursement to state cleanup, be aware that there may be significant delays in a state-conducted cleanup due to the large number of sites reported to the Department. Under certain circumstances, such as the presence of free product, initial remedial action is required regardless of what cleanup option is chosen. Although the program provides relief from the cost of on site and off site cleanup, it does not protect against claims from third party liability suits. Third party liability suits are your responsibility and should be covered by one of the EPA-approved mechanisms as set forth in 40 CFR Parts 280 and 281.

Reimbursement is paid on a "first-come, first-served" basis. "First-come, first-served" reimbursement is contingent upon submittal of a "complete" reimbursement application. A complete reimbursement application must meet the following criteria:

- 1) An Order of Eligibility for this site for the FPLIRP must have been issued by the DER;
- 2) A Letter of Intent must have been received by the Bureau of Waste Cleanup;
- 3) A Program Task (as defined in Section 17-773.500, Florida Administrative Code) must have been completed;

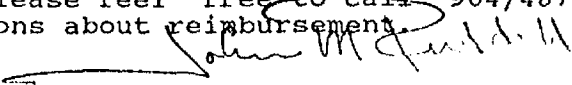
- 4) The reimbursement application must be submitted on forms adopted in Chapter 17-773, F.A.C.;
- 5) An adequate review of the application must have been performed by a Certified Public Accountant;
- 6) All information requested by DER after application submittal must have been provided.

Program tasks are specifically defined in the Department's Reimbursement Rule [Chapter 17-73, Florida Administrative Code (F.A.C.)]. These include: 1) Initial Remedial Actions (free product recovery and removal or treatment of excessively contaminated soils); 2) Contamination Assessment; 3) Remedial Action Plan; and 4) Remedial Action (which may include free product recovery, soil removal or treatment, and groundwater treatment). Reimbursement applications may be submitted once per year during the Remedial Action program task instead of waiting until completion of the entire remedial action. All cleanup activities must be conducted in accordance with the Department's Petroleum Contamination Site Cleanup Criteria Rule [Chapter 17-70, F.A.C.] or, if applicable, a signed Consent Order.

If site rehabilitation has been completed by the responsible party, the Department may also reimburse for the cost of tank removal and replacement (exclusive of hardware) and the cost of a Certified Public Accountant's review of the reimbursement application.

A reimbursement application package will be sent to the responsible party after a site has been determined eligible and a letter of intent received. Please be sure to save all documents (receipts, invoices, etc.) which indicate site rehabilitation costs you have incurred. You will need these documents to properly prepare the reimbursement application forms.

We hope this summary has answered most of your questions about the reimbursement program. Please feel free to call 904/487-3299 if you have additional questions about reimbursement.


Bureau of Waste Cleanup

cc: Nancy Evans - Southwest Florida District Office

Enclosures:

SITE CONDITIONS PRIOR TO START OF CLEAN-UP
MOBIL, S/S# 02-AM5
7008 Little Rd. New Port Richey, Florida

- A. A map of the facility, drawn to scale, which shows in detail tanks, pipes, monitoring wells, location and extent of contamination.**

See attached site map.

- B. All water quality data.**

See attached copy of Enviropact report dated 11/7/88 with groundwater analysis.

- C. Description of system that leaked.**

No part of the system was found to be leaking. A positive response to EPA Method 602 caused Mobil to file a DNF and EDI application.

- D. Date leak was first discovered.**

December 7, 1988 (see attached copy of discharge notification form and EDI application form).

- K. Date leak was first reported to the Department.**

December 7, 1988 (see attached copy of discharge notification form and EDI application form).

- F. How leak was discovered.**

Mobil hired Enviropact to sample the groundwater from the wells and analyze by EPA Method 602. A positive response to the 602 lab analysis caused Mobil to file a DNF and apply for EDI.

- G. Estimated amount of petroleum product lost.**

None

- H. Inches of free product in well(s).**

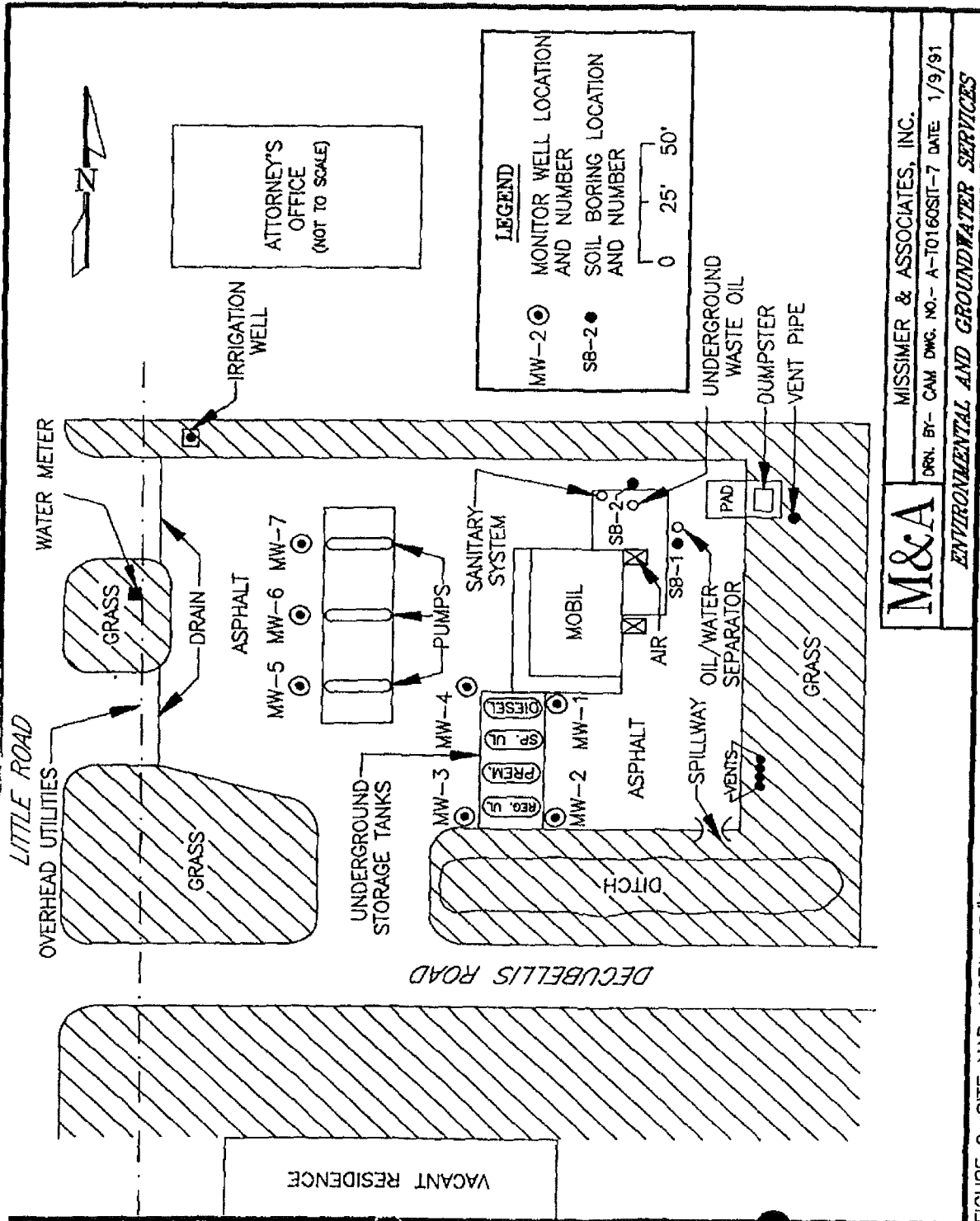
None

- I. Estimated amount of contaminated soil (cubic yards).**

Unknown. The extent of contaminated soil has not yet been determined. A CAR is currently being conducted by Missimer & Associates but is not yet completed.

- J. Title and dates of all site data or reports.**

Enviropact Report dated November 23, 1988.



M&A

MISSIMER & ASSOCIATES, INC.

DRN. BY- CAM DWG. NO.- A-T0160SIT-7 DATE: 1/9/91

ENVIRONMENTAL AND GROUNDWATER SERVICES

FIGURE 2. SITE MAP; MOBIL SS#02-AM5.

Discharge Notification Form

Form 17-1.218(3)

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank testing which reveal a discharge within 3 working days of testing.
2. Discharges exceeding 100 gallons on pervious surfaces as described in Section 17-61.05(4)(b) within 3 working days of discovery.
3. Positive response of a detection device, monitoring well test of sample or laboratory report within 3 working days of discovery.

Mail to the DER District Office in your district.

PLEASE PRINT OR TYPE
Put "X" where answer is unknown.

1. Facility Number: X 2. Tank Number: X 3. Date: 12-7-88
4. Facility Name: Mobil Oil Service Station #02-AM5
Facility Operator: Alan Bressler
Facility Address: 7008 Little Rd., New Pt. Richey, FL 34654
Telephone Number: (813) 842-6513 County Pasco
Mailing Address: 6362 N.W. 6th Way, Suite 390, Fort Lauderdale, FL 33309
5. Date of test or discovery: 12-7-88 month/day/year
6. Method of initial discovery. (circle one only)
A. Automatic detector in ground, monitoring well, or containment. D. Emptying and inspection.
B. NFPA 329 test (underground tanks only). E. Inventory control.
 C. Manual test of monitoring well(s). F. Odor or visible signs at facility or in vicinity.
G. Other: _____ (explain)
7. Estimated number of gallons lost: Unknown
8. What part of the storage system is leaking? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank E. Unknown
9. If a tank is leaking, circle the choices which describe the type.
A. Aboveground D. Underground H. Sacrificial anode type
B. Factory welded E. Bare or asphalt-coated steel I. Impressed current type
C. Field erected F. Fiberglass-clad steel J. Double walled
G. Fiberglass M. Other or Unknown _____ (explain)
10. Type of pollutant discharged. (circle one)
A. Leaded Gasoline. E. Aviation fuel.
B. Unleaded gasoline. Y. Other _____
C. Gasohol or alcohol-enriched gasoline. Z. Unknown _____ (explain)
11. Cause of leak. (circle all that apply)
 A. Unknown Pump Tank
B. Split G. Split J. Installation failure
C. Loose connection H. Corrosion P. Other _____
D. Other _____ I. Puncture
12. TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL INFORMATION SUBMITTED ON THIS FORM IS TRUE, ACCURATE, AND COMPLETE.

Lisa J. Reider, Mobil Oil Corp.
Name of Owner, Operator or Authorized Representative

Lisa J. Reider
Signature of Owner, Operator, or Authorized Representative

KEEP A COPY OF THIS FORM FOR YOUR RECORDS. cc: C.L. Pearson
File



Department of Environmental Regulation
EARLY DETECTION INCENTIVE PROGRAM
NOTIFICATION APPLICATION

Use this form to notify the Department of Environmental Regulation of petroleum contamination problems. This form is required to determine eligibility for the EDI program. FOR NOTIFICATION PURPOSES ONLY.

PLEASE PRINT OR TYPE
 Put "X" where answer is unknown.

1. Business/Site Name: Mobil Oil S/S #02-AMS
 Business/Site Operator: Mobil Oil Corporation - Attn: J. A. Blessin
 Business/Site Owner: Mobil Oil Corporation Property Owner: Mobil Oil Corporation
 Business/Site Address: 7008 Little Road, New Pt. Richey
 Telephone Number: (305) 776-8205 / _____ County: Pasco
 (Business) (Home)
 Mailing Address: 6363 NW 6th Way, Suite 390, Ft. Lauderdale, FL 33309

2. Date of discovery: 12-7-88 (month/day/year)

3. Have you previously reported this discharge to DER? No Yes 12-7-88
 If yes, date of report and to whom

4. Method of initial discovery (circle one only)
 A. Automatic detector in ground, monitoring well, or containment
 B. NFPA 329 test (underground tanks only)
 C. Manual test of monitoring wells(s)
 D. Emptying and inspection
 E. Inventory control
 F. Odor or visible signs at facility or in vicinity
 G. Other _____ (explain)

5. Estimated number of gallons lost: Unknown

6. What part of the storage system is leaking? (circle all that apply) A. Dispenser B. Pipe C. Fitting
 D. Tank E. Overfill F. Unknown
 Has the system been repaired? No Yes Unknown

7. Cause of leak (circle all that apply)
 A. Unknown Piping Tank
 B. Split G. Split
 C. Loose Connection H. Corrosion
 D. Other _____ I. Puncture
 J. Installation failure
 P. Overfill
 Q. Accident
 R. Other _____

8. If a tank is leaking, circle the choices which describe the type
 A. Aboveground E. Bare or asphalt-coated steel I. Impressed current type
 B. Factory welded F. Fiberglass-clad steel J. Double walled
 C. Field erected G. Fiberglass K. Abandoned or out of service
 D. Underground H. Sacrificial anode type M. Other or unknown _____ (explain)

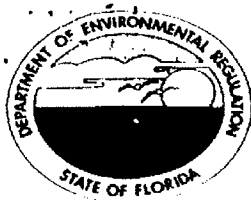
9. Type of product discharged (circle one)
 A. Leaded gasoline K. Kerosene
 B. Unleaded gasoline L. Used oil
 C. Gasohol or alcohol-enriched gasoline M. General diesel
 D. Vehicular diesel Y. Other _____ (explain)
 E. Aviation fuel Z. Unknown _____ (explain)

10. DER Facility Number _____

11. DER Tank Number _____

12. TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL INFORMATION SUBMITTED ON THIS FORM IS TRUE, ACCURATE AND COMPLETE.

Maurice Guy Environmental Advisor
 Signature of Person Completing Form Title Mobil
 Date 12-9-88



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 1, 1990

Ms. Lisa Reider Bott
Mobil Oil Corporation
501 N. 20th Street
Tampa, FL 33605

RE: Mobil Station 02-AMS
7008 Little Rd.
Newport Richey, Florida

EDI No. 515824
DER Facility No. 518515011

Dear Ms. Bott:

The Department has concluded its review of the documentation submitted in accordance with Section 376.3071(9)(b), Florida Statutes (F.S.), and determined that this site is eligible for state-administered cleanup under the Early Detection Incentive Program.

Persons whose substantial interests are affected by this Order of Determination of Eligibility have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing). The Petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within twenty-one (21) days of receipt of this notice. Failure to file a petition within the twenty-one (21) days constitutes a waiver of any right such persons have to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

This Order of Determination of Eligibility is final and effective on the date of receipt of this Order unless a petition is filed in accordance with the preceding paragraph. Upon the timely filing of a petition, this Order will not be effective until further order of the Department.

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road,

Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the clerk of the Department.

The DER Facility Number for this site is 518515011. Please use this identification on all future correspondence with the Department.

Any questions you may have on the technical aspects of this Order of Determination of Eligibility should be directed to Craig Ash at 904/487-3299. Contact with the above named person does not constitute a petition for administrative determination.

Sincerely,



John M. Ruddell, Chief
Bureau of Waste Cleanup

JMR:lfk

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Norma Singleton 7/30/90
Clerk Date



HANDEX[®]
Practical Environmental Solutions

March 3, 2000

Mr. Jan Eric Peterson
Pasco County Health Department
Environmental Health Division
4135 Land O' Lakes Blvd.
Land O' Lakes, Florida 34639

Reference: **UST Tank Closure Information**
Mobil 02-AM5
7008 Little Road
New Port Richey, Florida
FDEP Facility ID Number: 518515011
Handex Project Number: 112045-05

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
00 MAR - 8 AM 10: 19
BUREAU OF PETROLEUM
STORAGE SYSTEMS
DOCUMENT MANAGEMENT
CENTER

Dear Mr. Peterson:

As per your letter dated February 1, 2000, I have enclosed the additional information, which was not included in the original limited closure report submitted to you in January, 2000. See the attachment list below for a list of documents included as attachments. I hope that this information meets your needs. If not, or if you have any questions, please contact me at (813) 626-4646.

Sincerely,
HANDEX OF FLORIDA, INC.

Joseph Lundquist
Project Engineer

CC: Mr. Bruce Frink - Mobil Oil Corp
Ms. Ferda Yilmaz - FDEP Tallahassee

Attachments:

- 1 - Your Letter Dated February 1, 2000
- 2 - Limited Closure Summary Report Form (62-761.900(8))
- 3 - Storage Tank Registration Form (62-761.900(2))
- 4 - Certified Contractors Form (62-761.900(5))
- 5 - Liquid Sludge Tank Bottom Manifest (4 drums)
- 6 - Tank Disposal Manifest
- 7 - Contaminated Soil Pile Removal Manifest
- 8 - Contaminated Soil Pile Pre-burn Analytical Results



Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

Pasco County Health Department
Environmental Health Division
4135 Land O'Lakes Blvd.
Land O'Lakes Blvd.
Land O'Lakes, FL 34639
(813) 558-5173; voice
(813) 558-5190; fax

February 1st, 2000

Bruce Frink
Mobil Oil Corp.
17725 Esprit Drive
Tampa, FL 33647

RE: Mobil #02-AM5 – Facility I.D. #518515011

Dear Mr. Frink:

We have received the limited closure report for the above facility. We are needing some additional information which was not in your report. Please see the items checked "NO" on the enclosed closure review check list.

If you have any questions concerning this request, please contact me at the above stated telephone number or address.

Sincerely,

Jan Eric Peterson
Jan Eric Peterson
Environmental Specialist II

JEP:lb
Encls.



Pasco County Health Department
Marc J. Yacht, M.D., M.P.H. - Director
10841 Little Road • New Port Richey, FL 34654-2533
(727) 869-3900 • SunCom 552-7720

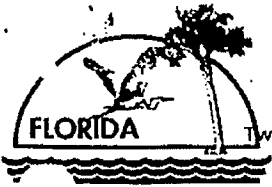


FACILITY NAME MOBILE 02-AMS
 FACILITY ID# 510515011
 DATE 11/28/2000

CLOSURE REVIEW CHECK LIST

	YES	NO	N/A
1. DISCHARGE REPORTING CHECK LIST (FORM 02-781.900 (1))			<input checked="" type="checkbox"/>
2. STORAGE TANK REGISTRATION FORM (02-781.900 (2))		<input checked="" type="checkbox"/>	
3. CERTIFIED CONTRACTORS FORM (FORM 02-781.900(5))		<input checked="" type="checkbox"/>	
4. CLOSURE ASSESSMENT FORM (Not Required) (FORM 02-781.900 (6))			
5. CLOSURE REPORT <u>LIMITED</u>	<input checked="" type="checkbox"/>		
6. LIQUID SLUDGE MANIFEST		<input checked="" type="checkbox"/>	
7. TANK DISPOSAL MANIFEST		<input checked="" type="checkbox"/>	
8. CONTAMINATED SOIL RECEIVING MANIFEST		<input checked="" type="checkbox"/>	
9. CONTAMINATED WATER RECEIVING MANIFEST		<input checked="" type="checkbox"/>	

COMMENTS



Department of Environmental Protection

Twin Towers Office Building • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure
Summary Report
Effective Date: July 13, 1998

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date <u>12/28/99</u>	FDEP Facility ID Number <u>518515011</u>	County <u>PASCO</u>
Facility Name <u>Mobil 02-AM5</u>	Facility Telephone #: () <u>N/A - closed</u>	
Facility Address: <u>7008 LITTLE ROAD, NEW PORT RICHEY, FL</u>		
Owner or Operator Name: <u>MOBIL OIL CORPORATION</u> <u>CONTACT: Mr. Bruce Frink</u>	Owner/Operator phone #: <u>(813) 991-7413</u>	
Mailing Address: <u>17725 ESPRIT DRIVE, TAMPA, FL 33647</u>		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

<input type="checkbox"/> Aboveground	<input checked="" type="checkbox"/> Underground
--------------------------------------	---

2. General System Information

Types of Products Stored: <u>Unleaded fuel + diesel</u>	Number of Tanks Closed <u>4</u>	Age(s) of Tanks <u>16 yrs</u>
---	---------------------------------	-------------------------------

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

<input checked="" type="checkbox"/> Tank Systems Removal?	<input type="checkbox"/> Spill Containment Installation?	<input type="checkbox"/> Change in Storage to a Non-Regulated Substance?
<input type="checkbox"/> Tank Systems Closed in Place?	<input type="checkbox"/> Dispenser Liners Installation?	<input type="checkbox"/> Release Prevention Barrier Installation?
<input type="checkbox"/> Piping Sump Installation?	<input type="checkbox"/> Secondary Containment Installation?	<input type="checkbox"/> Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1. A Discharge Report Form submitted to the County?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
b. Is the depth to groundwater less than 20 feet?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
c. Are there monitoring wells on site? If yes, were they	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1. Groundwater monitoring wells?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2. Vapor monitoring wells?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3. Used for closure assessment sampling?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4. Properly closed?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Retained for site assessment purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <u>N/A</u>

BRJ for Mobil
Signature of owner or operator

Joseph Lundquist
Signature of person performing
Limited Closure Assessment

JOSEPH LUNDQUIST
Name of person performing
Limited Closure Assessment

(date) 1/20/99

(date) 1/19/2000

Affiliation HANDER
~~HAIR~~ OF FL, INC.

Printed on recycled paper.



Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Storage Tank Facility Registration Form

DEP Form # 17-761.900(2)
Form Title <u>Storage Tank Registration Form</u>
Effective Date <u>July 13, 1998</u>
DEP Application No. _____ (Filled in by DEP)

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply	<input type="checkbox"/> New Registration	<input type="checkbox"/> New Owner	<input type="checkbox"/> New Tanks
	<input type="checkbox"/> Facility Info Update/Correction	<input type="checkbox"/> Owner Info Update/Correction	<input checked="" type="checkbox"/> Tank Info Update/Correction

A. FACILITY INFORMATION

County: <u>PASCO</u>	DEP Facility ID: <u>518515011</u>
----------------------	-----------------------------------

Facility Name: MOBIL 02-AM5
 Facility Address: 7008 LITTLE ROAD City: NEW PORT RICHEY Zip: _____
 Facility Contact: MR. BRUCE FRINK Business Phone: (813) 991-7413
 Facility Type(s): ABANDONED GAS STATION NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: <u>MOBIL OIL CORPORATION</u>	Emergency Phone: <u>(813) 991-7413</u>
---	--

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. Provide additional information in an attachment if necessary.

STORAGE TANK OWNER:

Name: <u>MOBIL OIL CORPORATION (MR. BRUCE FRINK)</u>	Facility - Responsible Person Relation Type:	Effective Date
Mail address: <u>1725 ESPRIT DRIVE</u>	<input checked="" type="checkbox"/> Facility Account Owner (pays fees)	
City, ST, Zip: <u>TAMPA, FL 33647</u>	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact: <u>MR. BRUCE FRINK</u>	STCM Account Number (if known):	
Telephone: <u>813-991-7413</u>		
Identify other appropriate facility relationships for this party:	<input type="checkbox"/> Facility Owner/Operator	<input type="checkbox"/> Property Owner
	<input checked="" type="checkbox"/> Storage Tank Owner	

TANK(S) REMOVAL CONTRACTOR:

Name: <u>ADAMS TANK & LIFT</u>	Other owner, relationship type(s)	Effective Date
Mail address: <u>8440 43rd STREET N.</u>	<input type="checkbox"/> Facility Owner/Operator	
City, ST, Zip: <u>PINELLAS PARK, FL 33781</u>	<input type="checkbox"/> Property Owner	
Contact: <u>DAVID PERVAY</u>	<input type="checkbox"/> Storage Tank Owner	
Telephone: <u>(727) 546-0558</u>	<input type="checkbox"/> Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date	Construction	Piping	Monitoring
UST	T	U	12000-GAL	1984	UNLEADED	B 12/28/99	FIBERGLASS		
UST	T	U	10000-GAL	1984	UNLEADED	B 12/28/99	FIBERGLASS		
UST	T	U	6000-GAL	1984	UNLEADED	B 12/28/99	FIBERGLASS		
UST	T	U	6000-GAL	1984	DIESEL	B 12/28/99	FIBERGLASS		

Certified Contractor (performing tank installation or removal): Adams Tank & Lift DBPR License No.: PCC050767

Registration Certification: To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

Joseph Wieland / Agent
Printed Name & Title

Joseph Wieland
Signature

1/3/00
Date

DEP 62-761.900(2)

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way,
Suite B200
Jacksonville, FL 32296
904-448-4300

Central District
3319 Maguire Blvd.,
Suite 232
Orlando, FL 32803
407-894-7555

Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave.,
Suite 364
Fort Myers, FL 33901
561-681-6600

South District
2295 Victoria Ave.,
Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy.,
Suite 221
Marathon, FL 33050
305-289-2310



Underground Storage System Installation and Removal Form for Certified Contractors

Pollutant Storage Systems Contractor as defined in Section 489.113, Florida Statutes (certified contractors as defined in Section 62-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the underground storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards. This includes system components such as dispenser liners, piping sumps, and overfill protection devices.

General Facility Information

Facility Name: <u>MOBIL 02-AM5</u>	DEP Facility Identification No.: <u>518515011</u>
Street Address (physical location): <u>7008 LITTLE ROAD, NEW PORT RICHEY, FL</u>	
County: <u>PASCO</u>	Telephone #: () <u>N/A - VACANT</u>
Owner Name: <u>MOBIL OIL CORPORATION CONTACT: Mr. BRUCE FRINK</u>	Telephone #: <u>(813) 991-7413</u>
Owner Address: <u>17725 ESPRIT DRIVE, TAMPA, FL 33647</u>	

Storage Tank System Information

Number of Tanks Installed: <u>0</u>	Number of Tanks Removed: <u>4</u>
Date Work Initiated: <u>12/27/99</u>	Date Work Completed: <u>12/28/99</u>
Tank(s) Manufactured by: _____	
Description of work Completed: <u>REMOVAL OF 4 USTs, BACKFILL WITH EXISTING SOILS, CLEAN FILL, AND #57 ROCK. REMOVAL OF 4 TANK SLUDGE BOTTOM 55-GAL. DRUMS AND APPROXIMATELY 10 TONS OF PETRO-CONT. SOILS.</u>	

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Protection; that to the best of my knowledge and belief, the storage tank system installation, replacement or removal at this facility was conducted in accordance with Chapter 489, Florida Statutes, Section 376.303, Florida Statutes, and Chapter 62-761, Florida Administrative Code, and its adopted reference standards and documents for underground storage tank systems.

Donald W. Adams Sr.
(Type or Print)
Certified Pollutant Tank Contractor Name

Certified Tank Contractor Signature

PCC050767

PSSC Number
Pollutant Storage Systems
Contractor License Number

1/3/00
Date

Sam Baker
Field Supervisor Name

1/3/00
Date

The owner or operator of the facility must register the tanks with the Department upon completion of the installation. The installer must submit this form to the County no more than 30 days after the completion of installation, replacement, or removal of a storage tank system.



FAX TRANSMISSION
HANDEX OF FLORIDA (TAMPA)
4510 Oak Fair Blvd. # 120
Tampa, FL 33610
(813) 626-4646
Fax: (813) 626-1898

To: Ferda Yilmaz
At: FDEP
Fax #: (850) 922-4939
From: Joe Lundquist

Date: January 4, 2000
Pages: 4, including this cover sheet.

Subject: Mobil 02-AM5 Sampling Event and Tank Pull
7008 Little Road
New Port Richey, Florida
FDEP Facility ID# 518515011

COMMENTS:

RMC QA'ed

Ms. Yilmaz,

Initials _____ Date _____

On 12/3/99 we sampled MW-1, MW-2, MW-3, MW-4, MW-8, MW-10, MW-11, and RW-1 for EPA Method 602 and 610. According to the PFP Work Order, the monitored perimeter wells only have to be sampled at the end of the first year O&M (July 2000) and at the site closure. However, in anticipation of the tank pull at the site, which occurred on 12/28/99, we wanted to sample these wells in case they were damaged. During the tank pull, all the above-mentioned wells were damaged, except for MW-8 and MW-11. I have enclosed the groundwater analytical results table and site plan for you. You will get the FDEP Sampling Forms, Lab analyticals, etc. when I send you a quarterly report sometime in February, 2000. As of now, the system is down (shut down on the day of the tank pull) and is inoperable because of damaged wells and damaged piping in some of the trenching. We will replace MW-1 and MW-10 (key monitoring wells), but since MW-2, MW-3, MW-4, and RW-1 were BDL, can we just replace these with just one well in the center of the tank field? That way the monitored perimeter wells would become MW-8, MW-11, and the new tank field well.

The tank pull went smoothly. All four USTs were removed, along with all product lines. We also removed approximately 10 tons of contaminated soils (OVA response > 150 ppm) from the tank field. The stockpile of contaminated soils is under visqueen at the site. We are waiting for the preburn results, so we can arrange for disposal. The rest of the soils (< 150 ppm), along with clean fill and #57 rock were used as backfill.

Thank you,
Joe Lundquist

Replace mw-4 also.

Poor Original

no need to replace mw-2, 3 and RW-1 because we have 2 concentric target levels.

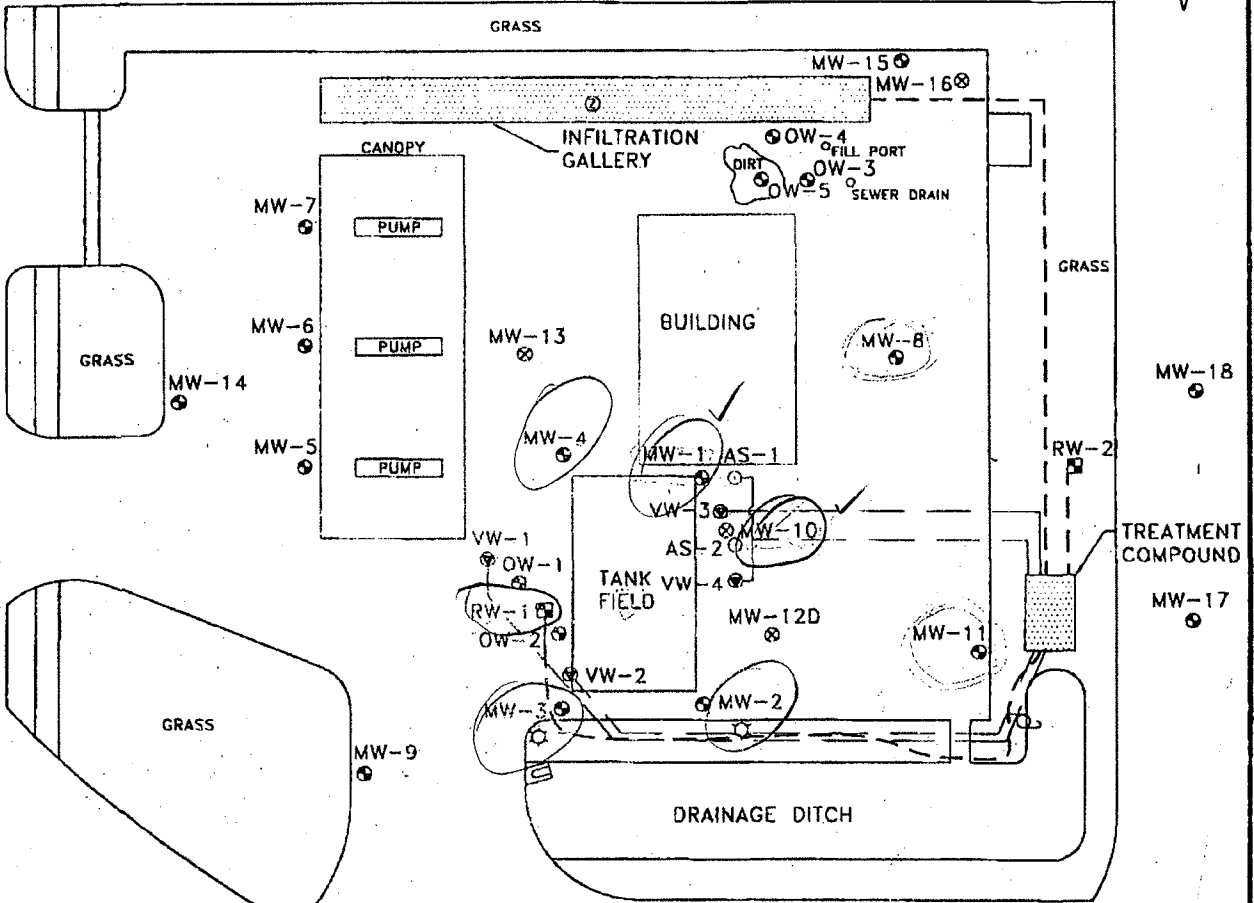
TPA: S:\CADDATA\MOBIL\02-AMS-1.DWG T.TRAYNHAM

Keywells
MW-1, 10

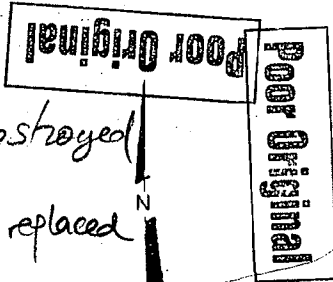
Perimeter wells
MW-2, 3, 4, 8, 11 RW-1

one more in the middle of the tank field

LITTLE ROAD



DECUBELLIS ROAD



LEGEND

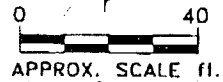
- ⊙ - MONITORING WELL
- ⊗ - INTERMEDIATE OR DEEP MONITORING WELL
- - AIR SPARGE WELL
- ⊠ - RECOVERY WELL
- ⊖ - VAPOR EXTRACTION WELL
- ⊕ - PIEZOMETER

○ 6 wells destroyed
 MW-1, 10 Key wells replaced

New Perimeter wells

4, 8, 11, and

new well in the middle of the tank



HANDEX
 Practical Environmental Solutions

MOBIL #02-AMS
 7008 LITTLE ROAD
 NEW PORT RICHEY, FL.

11-9-99

FIGURE 1
SITE PLAN

Table 4: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY

Page 1 of 2

Facility Name: **Mobil 02-AM5** FDEP # **518515011** All results expressed as ppb
 Facility Address: **New Port Richey, Florida** Handex # **112045-05** NA = Not Analyzed
 Startup Date: **07/21/1999** BDL = Below Detection Limits

Sample		Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Total VOA	MTBE	Total Naphthalenes	EDB	Total Lead
Location	Date									
MW-1	03/30/1995	370	9,500	2,100	14,000	25,970	< 1000	2,620	NA	NA
MW-3	03/30/1995	< 0.5	27	27	67	121	< 10	BDL	NA	NA
MW-9	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-11	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-12	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-A(1)	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
Trip Blank	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	03/30/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-1	06/28/1995	650	13,000	2,700	19,000	35,350	< 1000	2,990	NA	NA
MW-3	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-9	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	20	BDL	NA	NA
MW-11	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-12	06/28/1995	16	4	< 1	9	29	35	5	NA	NA
MW-A(2)	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	19	BDL	NA	NA
Trip Blank	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	06/28/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-1	09/19/1995	14	520	180	1,200	1,914	< 100	89	NA	NA
MW-3	09/19/1995	< 0.5	< 1	< 1	3	3	< 10	BDL	NA	NA
MW-9	09/19/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-11	09/19/1995	2	< 1	< 1	< 2	2	< 10	BDL	NA	NA
MW-12	09/19/1995	5	< 1	3	3	11	16	BDL	NA	NA
MW-A(3)	09/19/1995	8	260	110	670	1,048	< 100	40	NA	NA
Trip Blank	09/19/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	09/19/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-1	12/07/1995	48	970	580	3,400	4,998	< 100	2,810	NA	NA
MW-3	12/07/1995	18	5	18	40	81	120	51	NA	NA
MW-9	12/07/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-11	12/07/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-12	12/07/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-A(4)	12/07/1995	21	5	21	44	91	140	37	NA	NA
Trip Blank	12/07/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	12/07/1995	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-1	03/20/1996	160	2,300	950	5,800	9,210	100	1,320	NA	NA
MW-3	03/20/1996	1	9	24	68	102	< 10	41	NA	NA
MW-9	03/20/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-11	03/20/1996	< 0.5	< 1	< 1	2	2	< 10	BDL	NA	NA
MW-12	03/20/1996	< 0.5	< 1	< 1	3	3	< 10	BDL	NA	NA
MW-A(5)	03/20/1996	1	7	20	58	87	< 10	52	NA	NA
Trip Blank	03/20/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	03/20/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-17	04/23/1996	< 0.5	< 1	< 1	< 2	BDL	13	BDL	NA	NA
MW-18	04/23/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
Eq. Blank	04/23/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-1	06/12/1996	95	2,400	1,100	6,500	10,095	< 100	1,610	NA	NA
MW-3	06/12/1996	8	28	34	160	230	< 10	62	NA	NA
MW-9	06/12/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-11	06/12/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-12	06/12/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA
MW-BP*	06/12/1996	8	32	38	180	258	12	67	NA	NA
Trip Blank	06/12/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	NA	NA	NA
Eq. Blank	06/12/1996	< 0.5	< 1	< 1	< 2	BDL	< 10	BDL	NA	NA

O&M prior to 03/22/95 conducted by ViroGroup, Inc. See previous O&M reports for additional information.

Total Xylenes = sum of ortho, meta, and para-xylenes
 Total VOA = Total volatile organic aromatics (sum of benzene, toluene, ethylbenzene, and xylenes)
 MTBE = Methyl tert-butyl ether
 Total Naphthalenes = sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene
 EDB = Ethylene Dibromide
 * - Naphthalene only

Eq. Blank = Equipment Blank
 MW-A(1) = Duplicate sample of MW-11
 MW-A(2) = Duplicate sample of MW-9
 MW-A(3) = Duplicate sample of MW-1
 MW-A(4) = Duplicate sample of MW-3
 MW-A(5) = Duplicate sample of MW-3
 MW-A(6) = Duplicate sample of MW-10
 MW-BP* = Duplicate sample of MW-3

Not Original

Table 4: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY

Page 2 of 2

Facility Name: **Mobil 02-AM5** FDEP # **518515011** All results expressed as ppb
 Facility Address: **New Port Richey, Florida** Handex # **112045-05** NA = Not Analyzed
 Startup Date: **07/21/1999** BDL = Below Detection Limits

Location	Sample Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Total VOA	MTBE	Total Naphthalenes	EDB	Total Lead
MW-1	10/01/1996	< 100	2,379	< 100	4,601	6,980	< 100	944	NA	NA
MW-2	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-3	10/01/1996	< 1	< 1	< 1	2	2	< 1	BDL	NA	NA
MW-4	10/01/1996	3	< 1	< 1	4	7	2	BDL	NA	NA
MW-5	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-8	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-9	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-10	10/01/1996	4	< 1	< 1	17	22	< 1	BDL	NA	NA
MW-12	10/01/1996	5	< 1	9	BDL	13	4	BDL	NA	NA
RW-2	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-A(6)	10/01/1996	5	< 1	< 1	17	22	< 1	22	NA	NA
Eq. Blank	10/01/1996	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-1	01/13/1997	28	1,710	844	4,550	7,132	< 1	344	NA	NA
MW-A(3)	01/13/1997	30	1,550	757	4,040	6,377	< 1	291	NA	NA
MW-3	01/13/1997	< 1	1	11	26	39	< 1	24	NA	NA
MW-9	01/13/1997	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-11	01/13/1997	35	3	577	344	958	< 1	206	NA	NA
MW-12	01/13/1997	< 1	< 1	< 1	BDL	BDL	4	BDL	NA	NA
Eq. Blank	01/13/1997	< 1	< 1	< 1	BDL	BDL	< 1	BDL	NA	NA
MW-11	06/11/1997	1	<0.50	5	BDL	6	<0.50	NA	NA	NA
Eq. Blank	06/11/1997	<0.50	<0.50	<0.50	BDL	BDL	<0.50	NA	NA	NA
MW-1	01/14/1999	29	1,200	630	3,500	5,359	<5	1,634	NA	NA
MW-31	01/14/1999	30	1,200	600	3,700	5,530	20	1,470	NA	NA
MW-2	01/14/1999	<0.20	<0.20	<0.20	<0.60	BDL	<0.30	<1.71	NA	NA
MW-3	01/14/1999	<1	<1	14	<10	14	0.30	0.63	NA	NA
MW-4	01/14/1999	<1	<0.20	12	<0.60	12	<0.30	205	NA	NA
MW-8	01/14/1999	<1	<1	9	<3	9	0.60	2	NA	NA
MW-10	01/14/1999	430	<30	940	1,500	2,870	82	494	NA	NA
MW-11	01/14/1999	<0.20	<0.20	<0.20	<0.60	BDL	<0.30	<1.66	NA	NA
RW-1	01/14/1999	0.30	<0.20	<0.20	<0.20	0.30	11	<1.66	NA	NA
MW-1	05/12/1999	40	1,600	930	6,300	8,870	140	840*	NA	NA
MW-3	05/12/1999	0.2	< 0.2	< 0.2	< 0.6	0.2	< 0.3	< 0.5*	NA	NA
MW-10	05/12/1999	76	0.7	84	< 5	161	24	75*	NA	NA
RW-1	05/12/1999	0.2	< 0.2	< 0.2	< 0.6	0.2	6	< 1*	NA	NA
MW-1	10/22/1999	9	540	160	2,600	3,309	22	858	NA	NA
MW-10	10/22/1999	< 0.2	< 0.2	< 0.2	BDL	BDL	2	BDL	NA	NA
MW-1	12/03/1999	8	700	330	4,000	5,038	58	472*	NA	NA
MW-2	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	< 0.3	< 0.79*	NA	NA
MW-3	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	< 0.3	< 0.76*	NA	NA
MW-4	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	14	< 0.86*	NA	NA
MW-8	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	46	< 0.77*	NA	NA
MW-10	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	1	< 0.77*	NA	NA
MW-11	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	< 0.3	< 0.77*	NA	NA
RW-1	12/03/1999	< 0.2	< 0.2	< 0.2	< 0.6	BDL	4	< 0.77*	NA	NA

O&M prior to 03/22/95 conducted by ViroGroup, Inc. See previous O&M reports for additional information.
 Total Xylenes = sum of ortho, meta, and para-xylenes
 Total VOA = Total volatile organic aromatics (sum of benzene, toluene, ethylbenzene, and xylenes)
 MTBE = Methyl tert-butyl ether
 Total Naphthalenes = sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene
 EDB = Ethylene Dibromide
 * - Naphthalene only

For Original

Eq. Blank = Equipment Blank
 MW-A(1) = Duplicate sample of MW-11
 MW-A(2) = Duplicate sample of MW-9
 MW-A(3) = Duplicate sample of MW-1
 MW-A(4) = Duplicate sample of MW-3
 MW-A(5) = Duplicate sample of MW-3
 MW-A(6) = Duplicate sample of MW-10
 MW-BP* = Duplicate sample of MW-3
 MW-31 = Duplicate sample of MW-1

Little Road/Massachusetts Avenue

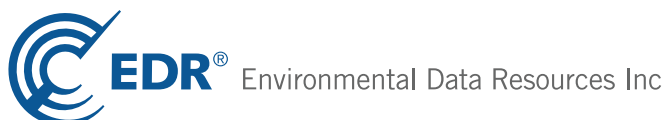
Little Road/Massachusetts Avenue

New Port Richey, FL 34655

Inquiry Number: 3008116.2s

March 08, 2011

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

LITTLE ROAD/MASSACHUSETTS AVENUE
NEW PORT RICHEY, FL 34655

COORDINATES

Latitude (North): 28.258800 - 28° 15' 31.7"
Longitude (West): 82.674500 - 82° 40' 28.2"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 335737.8
UTM Y (Meters): 3126835.2
Elevation: 24 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 28082-C6 PORT RICHEY, FL
Most Recent Revision: 1998

South Map: 28082-B6 ELFERS, FL
Most Recent Revision: 1998

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2005, 2006, 2007
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Florida's State-Funded Action Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Database

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tank Listing
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... ST102 - Facility/Owner/Tank Report
INDIAN UST..... Underground Storage Tanks on Indian Land
FF TANKS..... Federal Facilities Listing

EXECUTIVE SUMMARY

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Institutional Controls Registry
INST CONTROL..... Institutional Controls Registry

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfield Areas

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
SWRCY..... Recycling Centers
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
FI Sites..... Sites List
PRIORITYCLEANERS..... Priority Ranking List
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Oil and Hazardous Materials Incidents

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision

EXECUTIVE SUMMARY

UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database Listing
DRYCLEANERS.....	Drycleaning Facilities
NPDES.....	Wastewater Facility Regulation Database
AIRS.....	Permitted Facilities Listing
FL Cattle Dip. Vats.....	Cattle Dipping Vats
TIER 2.....	Tier 2 Facility Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
COAL ASH DOE.....	Sleam-Electric Plan Operation Data
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOBIL OIL CORP SS #AM5	7008 LITTLE RD	NNE 0 - 1/8 (0.022 mi.)	A3	25
AMOCO SPLIT SECOND #60591	6927 LITTLE RD	S 0 - 1/8 (0.069 mi.)	C7	33

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WEST PASCO TIRE	7030 LITTLE RD	N 0 - 1/8 (0.044 mi.)	B5	27

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's PCTO1--Petroleum Contamination Detail Report.

A review of the LUST list, as provided by EDR, and dated 02/02/2011 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
7-ELEVEN FOOD STORE #32351	6926 LITTLE RD	NE 0 - 1/8 (0.015 mi.)	A1	7
Discharge Cleanup Status: RA - RA ONGOING				
Discharge Cleanup Status: DNR - DISCHARGE NOTIFICATION RECEIVED				
MOBIL #02-AM5	7008 LITTLE RD	NNE 0 - 1/8 (0.022 mi.)	A2	17
Discharge Cleanup Status: RA - RA ONGOING				
Discharge Cleanup Status: RA - RA ONGOING				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. Shortly after the September 11 event, the DEP was instructed to remove the detail about some of the storage tank facilities in the state from their reports. Federal-owned facilities and bulk storage facilities are included in that set.

A review of the UST list, as provided by EDR, and dated 02/02/2011 has revealed that there are 3 UST

EXECUTIVE SUMMARY

sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>7-ELEVEN FOOD STORE #32351</i>	<i>6926 LITTLE RD</i>	<i>NE 0 - 1/8 (0.015 mi.)</i>	<i>A1</i>	<i>7</i>
<i>MOBIL #02-AM5</i>	<i>7008 LITTLE RD</i>	<i>NNE 0 - 1/8 (0.022 mi.)</i>	<i>A2</i>	<i>17</i>
FADI MALKI INC	6927 LITTLE RD	S 0 - 1/8 (0.069 mi.)	C6	30

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DEDB: Ethylene dibromide (EDB), a soil fumigant, that has been detected in drinking water wells. The amount found exceeds the maximum contaminant level as stated in Chapter 62-550 or 520. It is a potential threat to public health when present in drinking water.

A review of the DEDB list, as provided by EDR, and dated 02/03/2011 has revealed that there is 1 DEDB site within approximately 0.5 miles of the target property.

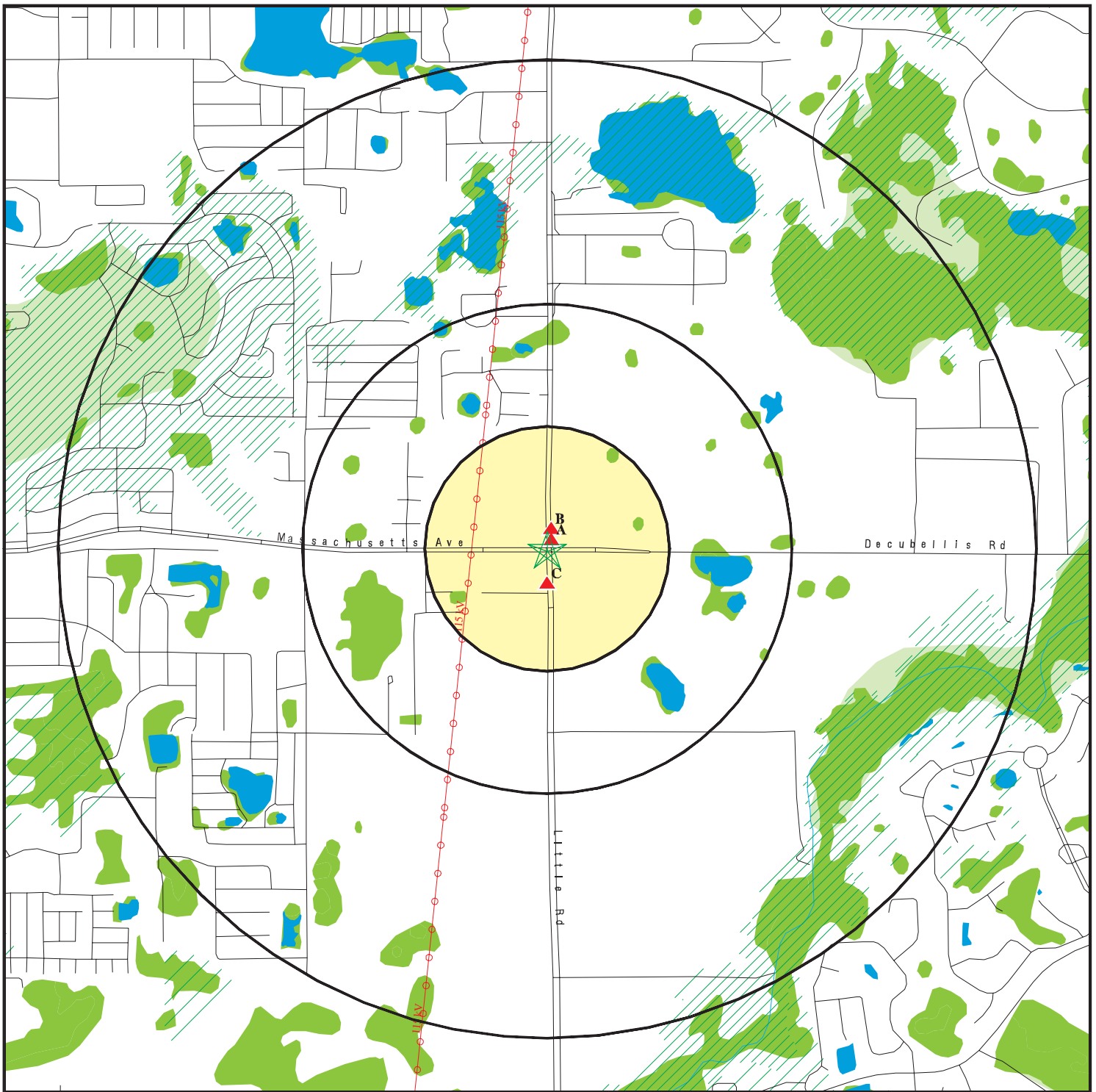
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	7030 LITTLE ROAD	N 0 - 1/8 (0.044 mi.)	B4	26

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 22 records.

<u>Site Name</u>	<u>Database(s)</u>
HOLIDAY SANITATN LF (BAILEYS BLUFF	SWF/LF
HESS #09554	UST
7-ELEVEN FOOD STORE #32726	UST
JIM MITCHELL RANCH	UST
PASCO CNTY-REPUMP STATION	UST
SUN COAST NEWS	AST
WAL-MART SUPERCENTER #994	AST
SUNOCO SERVICE STATION #07067531	RCRA-CESQG, FINDS
WAL-MART SUPERCENTER #994	RCRA-CESQG
BAILEYS BLUFF ROAD	ERNS
OFFICE PARK AT LITTLE ROAD	FINDS
OFFICE PARK AT LITTLE ROAD	FINDS
LITTLE RIDGE	FINDS
ROAD EXTENSION	FINDS
PERRINE RANCH ROAD EXTENSION	FINDS
ROWAN ROAD NORTH (CR 77)	FINDS
ROAD IMPROVEMENTS	FINDS
MITCHELL RANCH PLAZA - NORTHSIDE A	NPDES
LITTLE RIDGE	NPDES
PERRINE RANCH ROAD EXTENSION	NPDES
PINE HILL ROAD PAVING AND DRAINAGE	NPDES
WASH BOWL	PRIORITYCLEANERS

OVERVIEW MAP - 3008116.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

— Power transmission lines

— Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ State Wetlands

■ FL Brownfield

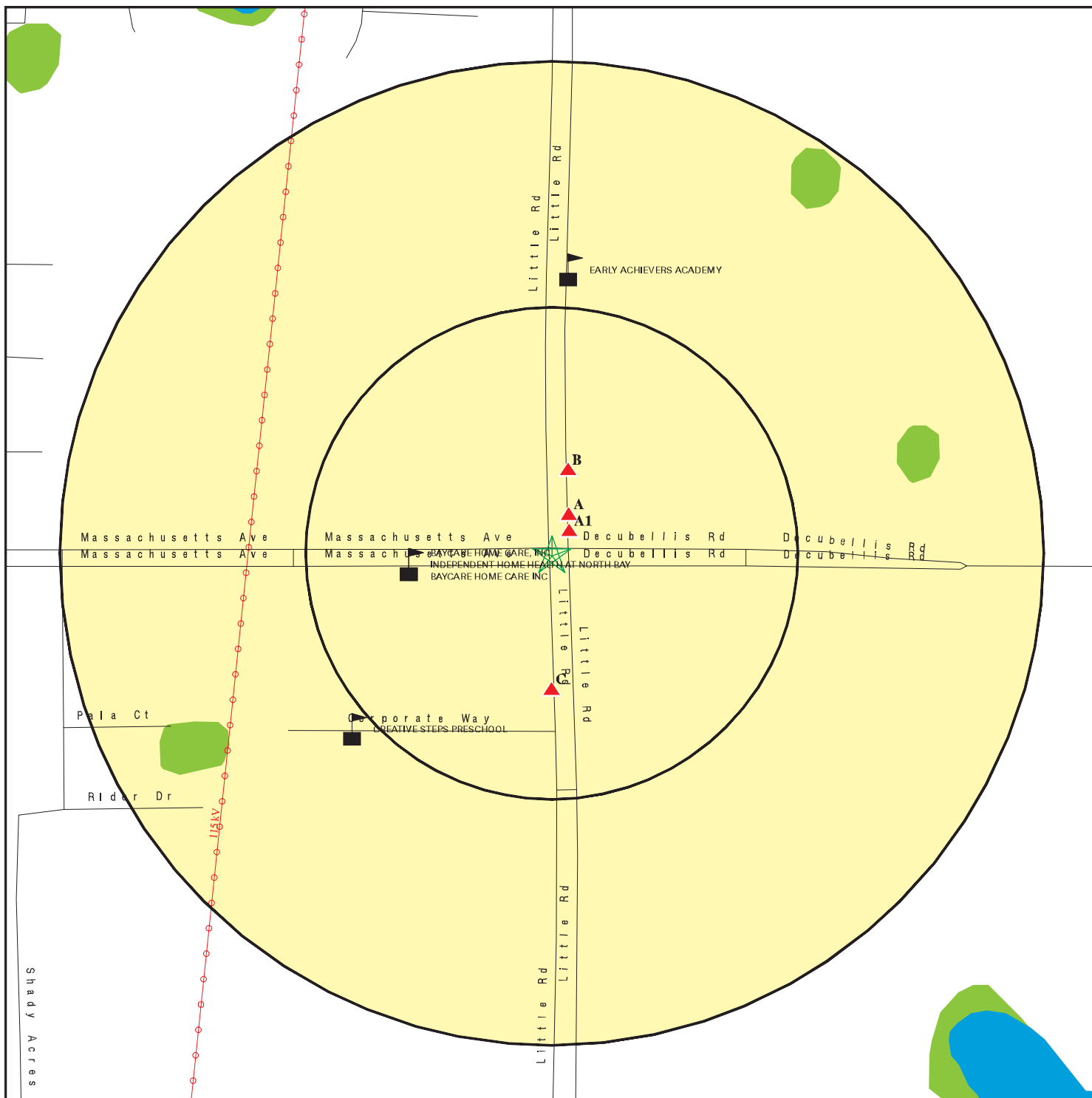


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Little Road/Massachusetts Avenue
 ADDRESS: Little Road/Massachusetts Avenue
 New Port Richey FL 34655
 LAT/LONG: 28.2588 / 82.6745

CLIENT: Universal Engineering Sciences
 CONTACT: Kurt Hardy
 INQUIRY #: 3008116.2s
 DATE: March 08, 2011 9:51 am

DETAIL MAP - 3008116.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- ▨ National Priority List Sites
- ▨ Dept. Defense Sites

- ▨ Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- State Wetlands
- ▨ FL Brownfield



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Little Road/Massachusetts Avenue
 ADDRESS: Little Road/Massachusetts Avenue
 New Port Richey FL 34655
 LAT/LONG: 28.2588 / 82.6745

CLIENT: Universal Engineering Sciences
 CONTACT: Kurt Hardy
 INQUIRY #: 3008116.2s
 DATE: March 08, 2011 9:53 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	2	0	NR	NR	NR	2
RCRA-CESQG		0.250	1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.500	2	0	0	NR	NR	2
LAST		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		0.250	3	0	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FF TANKS		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US CDL		TP	NR	NR	NR	NR	NR	0
FI Sites		1.000	0	0	0	0	NR	0
PRIORITYCLEANERS		0.500	0	0	0	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
DEDB		0.500	1	0	0	NR	NR	1
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
FL Cattle Dip. Vats		0.500	0	0	0	NR	NR	0
TIER 2		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
NE
< 1/8
0.015 mi.
78 ft.

7-ELEVEN FOOD STORE #32351
6926 LITTLE RD
NEW PORT RICHEY, FL 34654
Site 1 of 3 in cluster A

LUST U003336499
UST N/A
FINANCIAL ASSURANCE

Relative:
Equal

LUST:

Actual:
24 ft.

Region: STATE
Facility Id: 9800607
Facility Status: OPEN
Facility Type: A - Retail Station
Facility Phone: (407)532-2037
Facility Cleanup Rank: 3221
District: Southwest District
Lat/Long (dms): 28 15 30.0267 / 82 40 26.8673
Section: Not reported
Township: Not reported
Range: Not reported
Feature: Not reported
Method: AGPS
Datum: Not reported
Score: 50
Score Effective Date: 12/15/2004
Score When Ranked: 50
Operator: CATHY WISE
Name Update: 04/23/2008
Address Update: Not reported

Petroleum Cleanup PCT Facility Score:

Facility Cleanup Status: ONGO - ONGOING
Contact: CATHY WISE
Contact Company: 7-ELEVEN INC
Contact Address: 1300 LEE RD
Contact City/State/Zip: ORLANDO, FL 32810
Phone: (407)532-2037
Bad Address Ind: N
State: FL
Zip: 34654
Score: 50
Score Effective Date: 2004-12-15 00:00:00
Related Party ID: 20385
Primary RP Role: ACCOUNT OWNER
RP Begin Date: 07/13/1998
RP Zip: Not reported
RP Extension: Not reported

Discharge Cleanup Summary:

Discharge Date: 12/01/2003
PCT Discharge Combined: Not reported
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 09/27/2006
Cleanup Work Status: ACTIVE
Information Source: P - 17-770 PETROL/PETROL PROD CONTAMINATION
Other Source Description: Not reported
Eligibility Indicator: I - I
Site Manager: PEDIGO_L
Site Mgr End Date: Not reported
Tank Office: PCSWD - SWD STORAGE TANK PROGR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Discharge Date: 12/05/2003
PCT Discharge Combined: 12/01/2003
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: DNR - DISCHARGE NOTIFICATION RECEIVED
Disch Cleanup Status Date: 04/05/2004
Cleanup Work Status: COMBINED
Information Source: P - 17-770 PETROL/PETROL PROD CONTAMINATION
Other Source Description: Not reported
Eligibility Indicator: I - I
Site Manager: Not reported
Site Mgr End Date: Not reported
Tank Office: -

Petroleum Cleanup Program Eligibility:

Facility ID: Not reported
Discharge Date: Not reported
Pct Discharge Combined With: Not reported
Cleanup Required: Not reported
Discharge Cleanup Status: Not reported
Disch Cleanup Status Date: Not reported
Cleanup Work Status: Not reported
Information Source: Not reported
Other Source Description: Not reported
Application Received Date: Not reported
Cleanup Program: Not reported
Eligibility Status: Not reported
Elig Status Date: Not reported
Letter Of Intent Date: Not reported
Redetermined: Not reported
Inspection Date: Not reported
Site Manager: Not reported
Site Mgr End Date: Not reported
Tank Office: Not reported
Deductible Amount: Not reported
Deductible Paid To Date: Not reported
Co-Pay Amount: Not reported
Co-Pay Paid To Date: Not reported
Cap Amount: Not reported

Contaminated Media:

Discharge Date: 12/01/2003
Pct Discharge Combined With: Not reported
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 09/27/2006
Cleanup Work Status: ACTIVE
Information Source: P - 17-770 PETROL/PETROL PROD CONTAMINATION
Other Source Description: Not reported
Elig Indicator: I - INELIGIBLE
Site Manager: PEDIGO_L
Site Mgr End Date: Not reported
Tank Office: PCSWD - SWD STORAGE TANK PROGR
Contaminated Drinking Wells: 0
Contaminated Monitoring Well: No
Contaminated Soil: Yes
Contaminated Surface Water: No
Contaminated Ground Water: Yes
Pollutant: B - UNLEADED GAS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Pollutant Other Description: Not reported
Gallons Discharged: Not reported

Task Information:
District: SWD
Facility ID: 9800607
Facility Status: OPEN
Facility Type: A - Retail Station -
County: PASCO
County ID: 51
Cleanup Eligibility Status: I
Source Effective Date: Not reported
Discharge Date: 12-01-2003
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 09-27-2006
SRC Action Type: -
SRC Submit Date: Not reported
SRC Review Date: Not reported
SRC Completion Status: -
SRC Issue Date: Not reported
SRC Comment: Not reported
Cleanup Work Status: ACTIVE
Site Mgr: PEDIGO_L
Site Mgr End Date: Not reported
Tank Office: PCSWD - Southwest District
SR Task ID: Not reported
SR Cleanup Responsible: -
SR Funding Eligibility Type: -
SR Actual Cost: Not reported
SR Completion Date: Not reported
SR Payment Date: Not reported
SR Oral Date: Not reported
SR Written Date: Not reported
SR Soil Removal: Not reported
SR Free Product Removal: Not reported
SR Soil Tonnage Removed: Not reported
SR Soil Treatment: Not reported
SR Other Treatment: Not reported
SR Alternate Proc Received Date: Not reported
SR Alternate Procedure Status: Not reported
SR Alternate Procedure Status Date: Not reported
SR Alternate Procedure Comments: Not reported
SA Task ID: 73525
SA Cleanup Responsible: -
SA Funding Eligibility Type: -
SA Actual Cost: Not reported
SA Completion Date: Not reported
SA Payment Date: Not reported
RAP Task ID: 77971
RAP Cleanup Responsible ID: -
RAP Funding Eligibility Type: -
RAP Actual Cost: Not reported
RAP Completion Date: 06-23-2006
RAP Payment Date: Not reported
RAP Last Order Approved: Not reported
RA Task ID: 79814
RA Cleanup Responsible: -

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

RA Funding Eligibility Type: -
RA Years to Complete: Not reported
RA Actual Cost: Not reported
District: SWD
Facility ID: 9800607
Facility Status: OPEN
Facility Type: A - Retail Station -
County: PASCO
County ID: 51
Cleanup Eligibility Status: I
Source Effective Date: Not reported
Discharge Date: 12-05-2003
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: DNR - DISCHARGE NOTIFICATION RECEIVED
Disch Cleanup Status Date: 04-05-2004
SRC Action Type: -
SRC Submit Date: Not reported
SRC Review Date: Not reported
SRC Completion Status: -
SRC Issue Date: Not reported
SRC Comment: Not reported
Cleanup Work Status: COMBINED
Site Mgr: Not reported
Site Mgr End Date: Not reported
Tank Office: -
SR Task ID: Not reported
SR Cleanup Responsible: -
SR Funding Eligibility Type: -
SR Actual Cost: Not reported
SR Completion Date: Not reported
SR Payment Date: Not reported
SR Oral Date: Not reported
SR Written Date: Not reported
SR Soil Removal: Not reported
SR Free Product Removal: Not reported
SR Soil Tonnage Removed: Not reported
SR Soil Treatment: Not reported
SR Other Treatment: Not reported
SR Alternate Proc Received Date: Not reported
SR Alternate Procedure Status: Not reported
SR Alternate Procedure Status Date: Not reported
SR Alternate Procedure Comments: Not reported
SA Task ID: Not reported
SA Cleanup Responsible: -
SA Funding Eligibility Type: -
SA Actual Cost: Not reported
SA Completion Date: Not reported
SA Payment Date: Not reported
RAP Task ID: Not reported
RAP Cleanup Responsible ID: -
RAP Funding Eligibility Type: -
RAP Actual Cost: Not reported
RAP Completion Date: Not reported
RAP Payment Date: Not reported
RAP Last Order Approved: Not reported
RA Task ID: Not reported
RA Cleanup Responsible: -

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

RA Funding Eligibility Type: -
RA Years to Complete: Not reported
RA Actual Cost: Not reported

UST:

Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: Retail Station
Type Description: Retail Station
DEP Contrctr Own: No
Lat/Long (dms): 28 15 31 / 82 40 28
Positioning Method: AGPS
Region: STATE

Owner:

Owner Id: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address 2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Owner Contact: CATHY WISE
Owner Phone: (407) 532-2037

Tank Id: 1
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 10000
Install Date: 01-JUL-1998
Status: In service
Status Date: 01-JUL-1998

Construction:

Construction Category: Overfill/Spill
Construction Description: Ball check valve

Construction Category: Primary Construction
Construction Description: Steel

Construction Category: Secondary Containment
Construction Description: Double wall - tank jacket

Construction Category: Overfill/Spill
Construction Description: Spill containment bucket

Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Construction Category: Overfill/Spill
Construction Description: Tight fill

Construction Category: Overfill/Spill
Construction Description: Level gauges/alarms

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Monitoring:

Monitoring Description: Monitor dbl wall tank space
Monitoring Description: Mechanical line leak detector
Monitoring Description: Monitor dbl wall pipe space
Monitoring Description: Automatic tank gauging - USTs
Monitoring Description: Visual inspect pipe sumps
Monitoring Description: Electronic monitor pipe sumps
Monitoring Description: Visual inspect dispenser liners

Piping:

Piping Category: Primary Construction
Piping Description: Approved synthetic material
Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system
Piping Category: Miscellaneous Attributes
Piping Description: Dispenser liners
Piping Category: Secondary Containment
Piping Description: Double wall - pipe jacket

Tank Id: 2
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 10000
Install Date: 01-JUL-1998
Status: In service
Status Date: 01-JUL-1998

Construction:

Construction Category: Overfill/Spill
Construction Description: Ball check valve
Construction Category: Primary Construction
Construction Description: Steel
Construction Category: Secondary Containment
Construction Description: Double wall - tank jacket
Construction Category: Overfill/Spill
Construction Description: Spill containment bucket
Construction Category: Overfill/Spill
Construction Description: Flow shut-Off
Construction Category: Overfill/Spill
Construction Description: Tight fill

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Construction Category: Overfill/Spill
Construction Description: Level gauges/alarms

Monitoring:

Monitoring Description: Monitor dbl wall tank space
Monitoring Description: Mechanical line leak detector
Monitoring Description: Monitor dbl wall pipe space
Monitoring Description: Automatic tank gauging - USTs
Monitoring Description: Visual inspect pipe sumps
Monitoring Description: Electronic monitor pipe sumps
Monitoring Description: Visual inspect dispenser liners

Piping:

Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system
Piping Category: Miscellaneous Attributes
Piping Description: Dispenser liners
Piping Category: Primary Construction
Piping Description: Approved synthetic material
Piping Category: Secondary Containment
Piping Description: Double wall - pipe jacket

Tank Id: 3
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 10000
Install Date: 01-JUL-1998
Status: In service
Status Date: 01-JUL-1998

Construction:

Construction Category: Overfill/Spill
Construction Description: Ball check valve
Construction Category: Primary Construction
Construction Description: Steel
Construction Category: Secondary Containment
Construction Description: Double wall - tank jacket
Construction Category: Overfill/Spill
Construction Description: Spill containment bucket
Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Construction Category: Overfill/Spill
Construction Description: Tight fill

Construction Category: Overfill/Spill
Construction Description: Level gauges/alarms

Monitoring:
Monitoring Description: Monitor dbl wall tank space

Monitoring Description: Mechanical line leak detector

Monitoring Description: Monitor dbl wall pipe space

Monitoring Description: Automatic tank gauging - USTs

Monitoring Description: Visual inspect pipe sumps

Monitoring Description: Electronic monitor pipe sumps

Monitoring Description: Visual inspect dispenser liners

Piping:
Piping Category: Primary Construction
Piping Description: Approved synthetic material

Piping Category: Miscellaneous Attributes
Piping Description: Dispenser liners

Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system

Piping Category: Secondary Containment
Piping Description: Double wall - pipe jacket

Tank Id: 4
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 10000
Install Date: 01-JUL-1998
Status: In service
Status Date: 01-JUL-1998

Construction:
Construction Category: Overfill/Spill
Construction Description: Ball check valve

Construction Category: Primary Construction
Construction Description: Steel

Construction Category: Secondary Containment
Construction Description: Double wall - tank jacket

Construction Category: Overfill/Spill
Construction Description: Spill containment bucket

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Construction Category: Overfill/Spill
Construction Description: Tight fill

Construction Category: Overfill/Spill
Construction Description: Level gauges/alarms

Monitoring:

Monitoring Description: Monitor dbl wall tank space

Monitoring Description: Mechanical line leak detector

Monitoring Description: Monitor dbl wall pipe space

Monitoring Description: Automatic tank gauging - USTs

Monitoring Description: Visual inspect pipe sumps

Monitoring Description: Electronic monitor pipe sumps

Monitoring Description: Visual inspect dispenser liners

Piping:

Piping Category: Miscellaneous Attributes
Piping Description: Dispenser liners

Piping Category: Primary Construction
Piping Description: Approved synthetic material

Piping Category: Secondary Containment
Piping Description: Double wall - pipe jacket

Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system

FINANCIAL ASSURANCE 3:

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2009
Expire Date: 30-APR-2010
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Contact: CATHY WISE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Resp Party Phone: (407) 532-2037

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2010
Expire Date: 30-APR-2011
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Contact: CATHY WISE
Resp Party Phone: (407) 532-2037

FINANCIAL ASSURANCE 3:

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2009
Expire Date: 30-APR-2010
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Contact: CATHY WISE
Resp Party Phone: (407) 532-2037

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2010
Expire Date: 30-APR-2011
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN FOOD STORE #32351 (Continued)

U003336499

Contact: CATHY WISE
Resp Party Phone: (407) 532-2037

FINANCIAL ASSURANCE 3:

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2009
Expire Date: 30-APR-2010
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Contact: CATHY WISE
Resp Party Phone: (407) 532-2037

Region: 3
Facility ID: 9800607
Facility Phone: (407) 532-2037
Facility Status: OPEN
Facility Type: A
Type Description: Retail Station
DEP CO: N
Financial Responsibility: INSURANCE
Insurance Company: ILLINOIS UNION
Effective Date: 30-APR-2010
Expire Date: 30-APR-2011
Owner ID: 20385
Owner Name: 7-ELEVEN INC
Owner Address: 1300 LEE RD
Owner Address2: ATTN: CATHY WISE
Owner City,St,Zip: ORLANDO, FL 32810
Contact: CATHY WISE
Resp Party Phone: (407) 532-2037

A2 MOBIL #02-AM5
NNE 7008 LITTLE RD
< 1/8 NEW PORT RICHEY, FL 34654
0.022 mi.
117 ft. Site 2 of 3 in cluster A

LUST U001367947
UST N/A

Relative: LUST:
Equal Region: STATE
Facility Id: 8515011
Actual: Facility Status: CLOSED
24 ft. Facility Type: A - Retail Station
Facility Phone: (813)848-1722
Facility Cleanup Rank: 1656
District: Southwest District
Lat/Long (dms): 28 15 32.578 / 82 40 25.8434

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

Section: 002
Township: 25S
Range: 16E
Feature: Not reported
Method: UNVR
Datum: 0
Score: 81
Score Effective Date: 07/18/2007
Score When Ranked: 61
Operator: LANE MOOREHEAD
Name Update: Not reported
Address Update: 10/09/1996

Petroleum Cleanup PCT Facility Score:

Facility Cleanup Status: ONGO - ONGOING
Contact: GVR COMPLIANCE MANAGER / ALT PH: (800) 253-8054
Contact Company: EXXONMOBIL OIL CORP
Contact Address: 7300 W FRIENDLY AVE MS F-76
Contact City/State/Zip: GREENSBORO, NC 27420
Phone: (303)986-8011
Bad Address Ind: N
State: FL
Zip: 34654, 5512
Score: 81
Score Effective Date: 2007-07-18 00:00:00
Related Party ID: 14745
Primary RP Role: ACCOUNT OWNER
RP Begin Date: 05/20/1994
RP Zip: 2087
RP Extension: Not reported

Discharge Cleanup Summary:

Discharge Date: 10/23/1991
PCT Discharge Combined: 12/07/1988
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 10/09/2002
Cleanup Work Status: COMBINED
Information Source: D - DISCHARGE NOTIFICATION
Other Source Description: Not reported
Eligibility Indicator: E - E
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM
Discharge Date: 12/07/1988
PCT Discharge Combined: Not reported
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 03/08/2001
Cleanup Work Status: ACTIVE
Information Source: E - EDI
Other Source Description: Not reported
Eligibility Indicator: E - E
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

Petroleum Cleanup Program Eligibility:

Facility ID: 8515011
Discharge Date: 10/23/1991
Pct Discharge Combined With: 12/07/1988
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 10/09/2002
Cleanup Work Status: COMBINED
Information Source: D - DISCHARGE NOTIFICATION
Other Source Description: Not reported
Application Received Date: 1/23/1992
Cleanup Program: P - PETROLEUM LIABILITY AND RESTORATION INSURANCE PROGRAM
Eligibility Status: 2/26/1992
Elig Status Date: 2/26/1992
Letter Of Intent Date: 01/23/1992
Redetermined: No
Inspection Date: 10/29/1991
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM
Deductible Amount: 500
Deductible Paid To Date: 500
Co-Pay Amount: 0
Co-Pay Paid To Date: 0
Cap Amount: 1200000
Facility ID: 8515011
Discharge Date: 12/07/1988
Pct Discharge Combined With: Not reported
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 03/08/2001
Cleanup Work Status: ACTIVE
Information Source: E - EDI
Other Source Description: Not reported
Application Received Date: 12/15/1988
Cleanup Program: E - EARLY DETECTION INCENTIVE
Eligibility Status: 5/29/1991
Elig Status Date: 5/29/1991
Letter Of Intent Date: 03/01/1991
Redetermined: No
Inspection Date: 04/09/1990
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM
Deductible Amount: Not reported
Deductible Paid To Date: 0
Co-Pay Amount: Not reported
Co-Pay Paid To Date: 0
Cap Amount: Not reported

Contaminated Media:

Discharge Date: 10/23/1991
Pct Discharge Combined With: 12/07/1988
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 10/09/2002
Cleanup Work Status: COMBINED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

Information Source: D - DISCHARGE NOTIFICATION
Other Source Description: Not reported
Elig Indicator: E - ELIGIBLE
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM
Contaminated Drinking Wells: Not reported
Contaminated Monitoring Well: Not reported
Contaminated Soil: Not reported
Contaminated Surface Water: Not reported
Contaminated Ground Water: Not reported
Pollutant: B - UNLEADED GAS
Pollutant Other Description: Not reported
Gallons Discharged: Not reported
Discharge Date: 12/07/1988
Pct Discharge Combined With: Not reported
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 03/08/2001
Cleanup Work Status: ACTIVE
Information Source: E - EDI
Other Source Description: Not reported
Elig Indicator: E - ELIGIBLE
Site Manager: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - PETROLEUM CLEANUP TEAM
Contaminated Drinking Wells: 0
Contaminated Monitoring Well: Yes
Contaminated Soil: No
Contaminated Surface Water: No
Contaminated Ground Water: Yes
Pollutant: Y - UNKNOWN/NOT REPORTED
Pollutant Other Description: Not reported
Gallons Discharged: Not reported

Task Information:

District: SWD
Facility ID: 8515011
Facility Status: CLOSED
Facility Type: A - Retail Station -
County: PASCO
County ID: 51
Cleanup Eligibility Status: E
Source Effective Date: Not reported
Discharge Date: 10-23-1991
Cleanup Required: C - COMBINED CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 10-09-2002
SRC Action Type: -
SRC Submit Date: Not reported
SRC Review Date: Not reported
SRC Completion Status: -
SRC Issue Date: Not reported
SRC Comment: Not reported
Cleanup Work Status: COMBINED
Site Mgr: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - Team 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

SR Task ID: Not reported
SR Cleanup Responsible: -
SR Funding Eligibility Type: -
SR Actual Cost: Not reported
SR Completion Date: Not reported
SR Payment Date: Not reported
SR Oral Date: Not reported
SR Written Date: Not reported
SR Soil Removal: Not reported
SR Free Product Removal: Not reported
SR Soil Tonnage Removed: Not reported
SR Soil Treatment: Not reported
SR Other Treatment: Not reported
SR Alternate Proc Received Date: Not reported
SR Alternate Procedure Status: Not reported
SR Alternate Procedure Status Date: Not reported
SR Alternate Procedure Comments: Not reported
SA Task ID: Not reported
SA Cleanup Responsible: -
SA Funding Eligibility Type: -
SA Actual Cost: Not reported
SA Completion Date: Not reported
SA Payment Date: Not reported
RAP Task ID: Not reported
RAP Cleanup Responsible ID: -
RAP Funding Eligibility Type: -
RAP Actual Cost: Not reported
RAP Completion Date: Not reported
RAP Payment Date: Not reported
RAP Last Order Approved: Not reported
RA Task ID: 69183
RA Cleanup Responsible: -
RA Funding Eligibility Type: -
RA Years to Complete: Not reported
RA Actual Cost: Not reported
District: SWD
Facility ID: 8515011
Facility Status: CLOSED
Facility Type: A - Retail Station -
County: PASCO
County ID: 51
Cleanup Eligibility Status: E
Source Effective Date: Not reported
Discharge Date: 12-07-1988
Cleanup Required: R - CLEANUP REQUIRED
Discharge Cleanup Status: RA - RA ONGOING
Disch Cleanup Status Date: 03-08-2001
SRC Action Type: -
SRC Submit Date: Not reported
SRC Review Date: Not reported
SRC Completion Status: -
SRC Issue Date: Not reported
SRC Comment: Not reported
Cleanup Work Status: ACTIVE
Site Mgr: ALLEN_TK
Site Mgr End Date: Not reported
Tank Office: PCTM6 - Team 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

SR Task ID: 51937
SR Cleanup Responsible: RP - RESPONSIBLE PARTY
SR Funding Eligibility Type: -
SR Actual Cost: Not reported
SR Completion Date: Not reported
SR Payment Date: Not reported
SR Oral Date: Not reported
SR Written Date: Not reported
SR Soil Removal: Not reported
SR Free Product Removal: Not reported
SR Soil Tonnage Removed: Not reported
SR Soil Treatment: Not reported
SR Other Treatment: Not reported
SR Alternate Proc Received Date: Not reported
SR Alternate Procedure Status: Not reported
SR Alternate Procedure Status Date: Not reported
SR Alternate Procedure Comments: Not reported
SA Task ID: 51938
SA Cleanup Responsible: RP - RESPONSIBLE PARTY
SA Funding Eligibility Type: -
SA Actual Cost: \$72,663.07
SA Completion Date: 05-26-1992
SA Payment Date: 07-02-1993
RAP Task ID: 51939
RAP Cleanup Responsible ID: RP - RESPONSIBLE PARTY
RAP Funding Eligibility Type: -
RAP Actual Cost: Not reported
RAP Completion Date: 08-31-1992
RAP Payment Date: Not reported
RAP Last Order Approved: 1992-08-31 00:00:00
RA Task ID: 51940
RA Cleanup Responsible: RP - RESPONSIBLE PARTY
RA Funding Eligibility Type: -
RA Years to Complete: Not reported
RA Actual Cost: Not reported

UST:

Facility ID: 8515011
Facility Phone: (813) 848-1722
Facility Status: CLOSED
Facility Type: Retail Station
Type Description: Retail Station
DEP Contrctr Own: No
Lat/Long (dms): 28 15 32 / 82 40 27
Positioning Method: UNVR
Region: STATE

Owner:

Owner Id: 14745
Owner Name: EXXONMOBIL OIL CORP
Owner Address: 7300 W FRIENDLY AVE MS F-76
Owner Address 2: GILBARCO VEEDER-ROOT INC
Owner City,St,Zip: GREENSBORO, NC 27420
Owner Contact: GVR COMPLIANCE MANAGER / ALT PH: (800) 253-8054
Owner Phone: (303) 986-8011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

Tank Id: 1
Tank Location: UNDERGROUND
Substance: Vehicular diesel
Content Description: Vehicular Diesel
Vessel Indicator: TANK
Gallons: 6000
Install Date: 01-JUL-1984
Status: Removed
Status Date: 01-DEC-1999

Construction:
Construction Category: Not reported
Construction Description: Not reported

Monitoring:
Monitoring Description: Not reported

Piping:
Piping Category: Not reported
Piping Description: Not reported

Tank Id: 2
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 6000
Install Date: 01-JUL-1984
Status: Removed
Status Date: 01-DEC-1999

Construction:
Construction Category: Not reported
Construction Description: Not reported

Monitoring:
Monitoring Description: Not reported

Piping:
Piping Category: Not reported
Piping Description: Not reported

Tank Id: 3
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 10000
Install Date: 01-JUL-1984
Status: Removed
Status Date: 01-DEC-1999

Construction:
Construction Category: Not reported
Construction Description: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL #02-AM5 (Continued)

U001367947

Monitoring:

Monitoring Description: Not reported

Piping:

Piping Category: Not reported
Piping Description: Not reported

Tank Id: 4
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 12000
Install Date: 01-JUL-1984
Status: Removed
Status Date: 01-DEC-1999

Construction:

Construction Category: Not reported
Construction Description: Not reported

Monitoring:

Monitoring Description: Not reported

Piping:

Piping Category: Not reported
Piping Description: Not reported

Tank Id: 5
Tank Location: UNDERGROUND
Substance: Waste oil
Content Description: Waste Oil
Vessel Indicator: TANK
Gallons: 1000
Install Date: 01-JUN-1984
Status: Removed
Status Date: 01-DEC-1999

Construction:

Construction Category: Not reported
Construction Description: Not reported

Monitoring:

Monitoring Description: Not reported

Piping:

Piping Category: Not reported
Piping Description: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A3
NNE
 < 1/8
 0.022 mi.
 117 ft.

MOBIL OIL CORP SS #AM5
7008 LITTLE RD
NEW PORT RICHEY, FL 34654

RCRA-SQG 1000702607
FINDS FLD984204388

Site 3 of 3 in cluster A

Relative:
Equal

RCRA-SQG:

Date form received by agency: 08/02/1991

Facility name: MOBIL OIL CORP SS #AM5

Facility address: 7008 LITTLE RD

NEW PORT RICHEY, FL 346545512

EPA ID: FLD984204388

Mailing address: 3225 GALLOWS RD
 FAIRFAX, VA 22037 2

Contact: DAN HORTON

Contact address: 3225 GALLOWS RD
 FAIRFAX, VA 22037 0

Contact country: US

Contact telephone: 7038493330

Contact email: Not reported

EPA Region: 04

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: HORTON DAN

Owner/operator address: 3225 GALLOWS RD
 FAIRFAX, VA 22037

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 10/18/1996

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL OIL CORP SS #AM5 (Continued)

1000702607

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110007450276

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Florida Environmental System Today Application (FIESTA) Data Maintenance (FDM) system maintains entity, environmental interest and affiliation data for the State of Florida.

B4
North
< 1/8
0.044 mi.
231 ft.

7030 LITTLE ROAD
NEW PORT RICHEY, FL
Site 1 of 2 in cluster B

DEDB S108820053
N/A

Relative:
Equal

DEDB:
Well Id: 510007801
Location Method: DGPS
Florida Id: Not reported
Latitude: 28.2597602777778
Longitude: 82.6739736111111
Well Depth: 0
Case depth: 0
Diameter: 0
Well Type: Private well
Long DD: 82
Long MM: 40
Long SS: 26.305
Lat DD: 28
Lat MM: 15
Lat SS: 35.137
Permit No: Not reported
Directions: Not reported
Comments: MTBE @ 100
Status: CONNECTION COMPLETE

Actual:
24 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S108820053

Recheck: Not reported
Reimbursement: N
Tagged: Not reported
Exchange: Not reported
Alb X: 529777.4
Alb Y: 473259.46
Username: Not reported
Time Stamp: Not reported
Datum: Not reported
Scale: 0
Accuracy: 0
QA Method: NOT REVIEWED
Created: Not reported
Filter status: Not reported
Resample: Not reported
Oculus: Not reported
Sample ID: 91101327
Sample Date: 10/17/1991
Analysis: Not reported
Discharge: 0
Test Type: 1
Chemical: ETHYLENE DIBROMIDE (EDB)
Value: 0
Res Qual: U
Units: ug/L
CAS Number: 106-93-4
Facility Zip Ext: Not reported
Method: 2

B5
North
< 1/8
0.044 mi.
231 ft.

WEST PASCO TIRE
7030 LITTLE RD
NEW PORT RICHEY, FL 34654

RCRA-CESQG 1004682445
FINDS FL0000093328

Site 2 of 2 in cluster B

Relative:
Equal

RCRA-CESQG:

Date form received by agency: 01/07/1994

Facility name: WEST PASCO TIRE

Facility address: 7030 LITTLE RD

NEW PORT RICHEY, FL 346545512

EPA ID: FL0000093328

Contact: STEPHEN GREEN

Contact address: 7030 LITTLE RD

NEW PORT RICHEY, FL 346545512

Contact country: US

Contact telephone: 8138425169

Contact email: Not reported

EPA Region: 04

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST PASCO TIRE (Continued)

1004682445

hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: GREEN STEPHEN
Owner/operator address: 7030 LITTLE RD
NEW PORT RICHEY, FL 34654
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/15/1997
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST PASCO TIRE (Continued)

1004682445

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110002516983

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Florida Environmental System Today Application (FIESTA) Data Maintenance (FDM) system maintains entity, environmental interest and affiliation data for the State of Florida.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C6
South
< 1/8
0.069 mi.
363 ft.

FADI MALKI INC
6927 LITTLE RD
NEW PORT RICHEY, FL 34655

UST **U001379050**
N/A

Site 1 of 2 in cluster C

Relative:
Equal

UST:

Facility ID: 9103522
Facility Phone: (727) 842-8666
Facility Status: OPEN
Facility Type: Retail Station
Type Description: Retail Station
DEP Contrctr Own: No
Lat/Long (dms): 28 15 31 / 82 40 28
Positioning Method: AGPS
Region: STATE

Actual:
24 ft.

Owner:

Owner Id: 65577
Owner Name: FADI MALKI INC
Owner Address: 6927 LITTLE RD
Owner Address 2: Not reported
Owner City,St,Zip: NEW PORT RICHEY, FL 34655
Owner Contact: FADI MALKI
Owner Phone: (727) 842-8666

Tank Id: 1
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 12000
Install Date: 01-NOV-1991
Status: In service
Status Date: Not reported

Construction:

Construction Category: Primary Construction
Construction Description: Fiberglass clad steel

Construction Category: Secondary Containment
Construction Description: Double wall

Construction Category: Overfill/Spill
Construction Description: Spill containment bucket

Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Construction Category: Overfill/Spill
Construction Description: Tight fill

Monitoring:

Monitoring Description: Monitor dbl wall tank space

Monitoring Description: Mechanical line leak detector

Monitoring Description: Monitor dbl wall pipe space

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FADI MALKI INC (Continued)

U001379050

Monitoring Description: Visual inspect pipe sumps

Monitoring Description: Visual inspect dispenser liners

Piping:

Piping Category: Secondary Containment

Piping Description: Double wall

Piping Category: Miscellaneous Attributes

Piping Description: Pressurized piping system

Piping Category: Miscellaneous Attributes

Piping Description: Dispenser liners

Tank Id: 2
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 12000
Install Date: 01-NOV-1991
Status: In service
Status Date: Not reported

Construction:

Construction Category: Primary Construction
Construction Description: Fiberglass clad steel

Construction Category: Secondary Containment
Construction Description: Double wall

Construction Category: Overfill/Spill
Construction Description: Spill containment bucket

Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Construction Category: Overfill/Spill
Construction Description: Tight fill

Monitoring:

Monitoring Description: Monitor dbl wall tank space

Monitoring Description: Mechanical line leak detector

Monitoring Description: Visual inspect pipe sumps

Monitoring Description: Visual inspect dispenser liners

Monitoring Description: Monitor dbl wall pipe space

Piping:

Piping Category: Miscellaneous Attributes

Piping Description: Dispenser liners

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FADI MALKI INC (Continued)

U001379050

Piping Category: Secondary Containment
Piping Description: Double wall

Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system

Tank Id: 3
Tank Location: UNDERGROUND
Substance: Unleaded gas
Content Description: Unleaded Gas
Vessel Indicator: TANK
Gallons: 12000
Install Date: 01-NOV-1991
Status: In service
Status Date: Not reported

Construction:

Construction Category: Primary Construction
Construction Description: Fiberglass clad steel

Construction Category: Secondary Containment
Construction Description: Double wall

Construction Category: Overfill/Spill
Construction Description: Spill containment bucket

Construction Category: Overfill/Spill
Construction Description: Flow shut-Off

Construction Category: Overfill/Spill
Construction Description: Tight fill

Monitoring:

Monitoring Description: Monitor dbl wall tank space

Monitoring Description: Mechanical line leak detector

Monitoring Description: Visual inspect pipe sumps

Monitoring Description: Visual inspect dispenser liners

Monitoring Description: Monitor dbl wall pipe space

Piping:

Piping Category: Secondary Containment
Piping Description: Double wall

Piping Category: Miscellaneous Attributes
Piping Description: Dispenser liners

Piping Category: Miscellaneous Attributes
Piping Description: Pressurized piping system

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C7
South
< 1/8
0.069 mi.
364 ft.

AMOCO SPLIT SECOND #60591
6927 LITTLE RD
NEW PORT RICHEY, FL 34654

RCRA-SQG **1000821224**
FINDS **FLD984241422**

Site 2 of 2 in cluster C

Relative:
Equal

RCRA-SQG:

Date form received by agency: 07/06/1992
 Facility name: AMOCO SERVICE STATION #60591
 Facility address: 6927 LITTLE ROAD
 ELFERS, FL 34680
 EPA ID: FLD984241422
 Mailing address: 9741 INTERNATIONAL CT N
 ST PETERSBURG, FL 337164807

Actual:
24 ft.

Contact: DAVID WHITAKER
 Contact address: 9741 INTERNATIONAL CT N
 ST PETERSBURG, FL 337164807
 Contact country: US
 Contact telephone: 8135773545
 Contact email: Not reported
 EPA Region: 04
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: WHITAKER DAVID
 Owner/operator address: 9741 INTERNATIONAL CT N
 ST PETERSBURG, FL 33716
 Owner/operator country: US
 Owner/operator telephone: Not reported
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: 06/09/1999
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
 Mixed waste (haz. and radioactive): No
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMOCO SPLIT SECOND #60591 (Continued)

1000821224

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018

Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110007460283

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Count: 22 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW PORT RICHEY	A100202617	SUN COAST NEWS	6214 HWY 19		AST
NEW PORT RICHEY	U003853659	HESS #09554	8923 HWY 54	34655	UST
NEW PORT RICHEY	U003714649	7-ELEVEN FOOD STORE #32726	7320 HWY 54	34653	UST
NEW PORT RICHEY	1005442551	SUNOCO SERVICE STATION #07067531	6445 SR 54	34653	RCRA-CESQG, FINDS
NEW PORT RICHEY	1005442099	WAL-MART SUPERCENTER #994	7203 SR 54	34653	RCRA-CESQG
NEW PORT RICHEY	A100229324	WAL-MART SUPERCENTER #994	8745 HWY 54	34655	AST
NEW PORT RICHEY	1009313515	OFFICE PARK AT LITTLE ROAD	SE CORNER OF LITTLE RD & JASMI	34654	FINDS
NEW PORT RICHEY	1011422496	OFFICE PARK AT LITTLE ROAD	SE CORNER OF LITTLE RD & JASMI	34654	FINDS
NEW PORT RICHEY	S107805264	MITCHELL RANCH PLAZA - NORTHSIDE A	FROM DIRVEWAY ACCESS "B"		NPDES
NEW PORT RICHEY	U001368308	JIM MITCHELL RANCH	S HWY 54		UST
NEW PORT RICHEY	S108069573	LITTLE RIDGE	LITTLE RD & CRUCA LN		NPDES
NEW PORT RICHEY	1010503965	LITTLE RIDGE	LITTLE RD & CRUCA LN	34654	FINDS
NEW PORT RICHEY	U001368558	PASCO CNTY-REPUMP STATION	LITTLE RD	34654	UST
NEW PORT RICHEY	S101646527	HOLIDAY SANITATN LF (BAILEYS BLUFF	5MI SW NEW PRT		SWF/LF
NEW PORT RICHEY	S108069589	PERRINE RANCH ROAD EXTENSION	PERRINE RANCH RD AT MITCHELL B		NPDES
NEW PORT RICHEY	1011431478	ROAD EXTENSION	PERRINE RANCH RD AT MITCHELL B	34655	FINDS
NEW PORT RICHEY	1010429626	PERRINE RANCH ROAD EXTENSION	PERRINE RANCH RD AT MITCHELL B	34655	FINDS
NEW PORT RICHEY	S110473216	PINE HILL ROAD PAVING AND DRAINAGE	PINE HILL RD		NPDES
NEW PORT RICHEY	1005891019	ROWAN ROAD NORTH (CR 77)	ROWAN FROM PLATHE TO MASS AVE	34654	FINDS
NEWPORT RICHEY	2004731098	BAILEYS BLUFF ROAD	BAILEYS BLUFF ROAD	34655	ERNS
PORT RICHEY	S105537985	WASH BOWL	7104 HWY 52	34668	PRIORITYCLEANERS
PORT RICHEY	1011437444	ROAD IMPROVEMENTS	E SIDE OF US-19 AT FOX HOLLOW	34668	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 02/14/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/30/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/30/2010	Source: EPA
Date Data Arrived at EDR: 12/30/2010	Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 03/01/2011
Number of Days to Update: 57	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/11/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/28/2010	Source: EPA
Date Data Arrived at EDR: 12/01/2010	Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 03/01/2011
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/05/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 12/10/2010
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/05/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 12/10/2010
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 07/09/2010	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 07/09/2010	Telephone: 202-267-2180
Date Made Active in Reports: 08/17/2010	Last EDR Contact: 01/07/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 04/18/2011
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Florida's State-Funded Action Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/15/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 11/30/2010	Telephone: 850-488-0190
Date Made Active in Reports: 12/30/2010	Last EDR Contact: 03/01/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/24/2011
Date Data Arrived at EDR: 01/25/2011
Date Made Active in Reports: 02/24/2011
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 850-922-7121
Last EDR Contact: 01/25/2011
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Petroleum Contamination Detail Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 02/24/2011
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 850-245-8839
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Listing

A statewide listing of leaking aboveground storage tank site locations.

Date of Government Version: 01/19/2011
Date Data Arrived at EDR: 01/19/2011
Date Made Active in Reports: 02/28/2011
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 850-245-8799
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/19/2010
Date Data Arrived at EDR: 11/19/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/16/2010
Date Data Arrived at EDR: 11/19/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 70

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2010
Date Data Arrived at EDR: 11/12/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 77

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/01/2010	Source: EPA Region 1
Date Data Arrived at EDR: 11/05/2010	Telephone: 617-918-1313
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/04/2010	Source: EPA Region 6
Date Data Arrived at EDR: 11/05/2010	Telephone: 214-665-6597
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/04/2010	Telephone: 913-551-7003
Date Made Active in Reports: 07/07/2010	Last EDR Contact: 05/04/2010
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: STI02 - Facility/Owner/Tank Report

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/02/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/08/2011	Telephone: 850-245-8839
Date Made Active in Reports: 02/28/2011	Last EDR Contact: 02/08/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Quarterly

AST: STI02 - Facility/Owner/Tank Report
Registered Aboveground Storage Tanks.

Date of Government Version: 02/02/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/08/2011	Telephone: 850-245-8839
Date Made Active in Reports: 02/28/2011	Last EDR Contact: 02/08/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/01/2010	Source: EPA, Region 1
Date Data Arrived at EDR: 11/05/2010	Telephone: 617-918-1313
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2010	Source: EPA Region 10
Date Data Arrived at EDR: 11/12/2010	Telephone: 206-553-2857
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2010	Source: EPA Region 7
Date Data Arrived at EDR: 12/02/2010	Telephone: 913-551-7003
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 57	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/16/2010	Source: EPA Region 8
Date Data Arrived at EDR: 11/19/2010	Telephone: 303-312-6137
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 70	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/19/2010	Source: EPA Region 9
Date Data Arrived at EDR: 11/19/2010	Telephone: 415-972-3368
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 70	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010	Source: EPA Region 5
Date Data Arrived at EDR: 02/11/2010	Telephone: 312-886-6136
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/31/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/10/2010	Source: EPA Region 6
Date Data Arrived at EDR: 12/01/2010	Telephone: 214-665-7591
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 58	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/27/2010	Source: EPA Region 4
Date Data Arrived at EDR: 08/30/2010	Telephone: 404-562-9424
Date Made Active in Reports: 10/04/2010	Last EDR Contact: 02/16/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/17/2011
Number of Days to Update: 55	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Varies

FF TANKS: Federal Facilities Listing

A listing of federal facilities with storage tanks.

Date of Government Version: 01/04/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/07/2011	Telephone: 850-245-8250
Date Made Active in Reports: 02/02/2011	Last EDR Contact: 01/03/2011
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/18/2011
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Institutional Controls Registry

The registry is a database of all contaminated sites in the state of Florida which are subject to engineering controls. Engineering Controls encompass a variety of engineered remedies to contain and/or reduce contamination, and/or physical barriers intended to limit access to property. ECs include fences, signs, guards, landfill caps, provision of potable water, slurry walls, sheet pile (vertical caps), pumping and treatment of groundwater, monitoring wells, and vapor extraction systems.

Date of Government Version: 01/07/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/14/2011	Telephone: 850-245-8927
Date Made Active in Reports: 02/02/2011	Last EDR Contact: 01/10/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Semi-Annually

Inst Control: Institutional Controls Registry

The registry is a database of all contaminated sites in the state of Florida which are subject to institutional and engineering controls.

Date of Government Version: 01/07/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/14/2011	Telephone: 850-245-8927
Date Made Active in Reports: 02/02/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites

Listing of closed and active voluntary cleanup sites.

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 12/01/2010
Date Made Active in Reports: 12/30/2010
Number of Days to Update: 29

Source: Department of Environmental Protection
Telephone: 850-245-8705
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfield Areas

Brownfields are abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination. Florida's Brownfields Redevelopment Act primary goals are to reduce health and environmental hazards on existing commercial and industrial sites that are abandoned or underused due to these hazards and create financial and regulatory incentives to encourage voluntary cleanup and redevelopment of sites.

Date of Government Version: 01/10/2011
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/15/2011
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 01/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/24/2010
Date Data Arrived at EDR: 06/25/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/30/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/22/2010
Number of Days to Update: 137	Next Scheduled EDR Contact: 04/11/2011
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SWRCY: Recycling Centers

A listing of recycling centers located in the state of Florida.

Date of Government Version: 10/19/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/23/2009	Telephone: 850-245-8718
Date Made Active in Reports: 10/27/2009	Last EDR Contact: 01/28/2011
Number of Days to Update: 4	Next Scheduled EDR Contact: 05/09/2011
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 02/08/2011
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/03/2010	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/30/2010	Telephone: 202-307-1000
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 12/08/2010
Number of Days to Update: 48	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Quarterly

FL SITES: Sites List

This summary status report was developed from a number of lists including the Eckhardt list, the Moffit list, the EPA Hazardous Waste Sites list, EPA's Emergency & Remedial Response information System list (RCRA Section 3012) & existing department lists such as the obsolete uncontrolled Hazardous Waste Sites list. This list is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/1989
Date Data Arrived at EDR: 05/09/1994
Date Made Active in Reports: 08/04/1994
Number of Days to Update: 87

Source: Department of Environmental Protection
Telephone: 850-245-8705
Last EDR Contact: 03/24/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PRIORITYCLEANERS: Priority Ranking List

The Florida Legislature has established a state-funded program to cleanup properties that are contaminated as a result of the operations of a drycleaning facility.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 2

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 02/23/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/09/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/05/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS: Oil and Hazardous Materials Incidents

Statewide oil and hazardous materials inland incidents.

Date of Government Version: 01/26/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/28/2011	Telephone: 850-245-2010
Date Made Active in Reports: 02/24/2011	Last EDR Contact: 01/17/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010	Telephone: (404) 562-8651
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 01/06/2011
Number of Days to Update: 87	Next Scheduled EDR Contact: 04/18/2011
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2010	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-366-4595
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 02/11/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/21/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/13/2010
Number of Days to Update: 112	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2010	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 10/29/2010	Telephone: Varies
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 01/03/2011
Number of Days to Update: 91	Next Scheduled EDR Contact: 04/18/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 02/03/2011	Telephone: 703-416-0223
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 03/04/2011
Number of Days to Update: 99	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/04/2010	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/09/2010	Telephone: 303-231-5959
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/29/2010
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008	Source: EPA
Date Data Arrived at EDR: 01/13/2010	Telephone: 202-566-0250
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 03/01/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/29/2010
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/11/2011
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/28/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/28/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2010	Telephone: 202-564-5088
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 12/23/2010
Number of Days to Update: 18	Next Scheduled EDR Contact: 04/11/2011
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/21/2011
Number of Days to Update: 98	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010	Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 12/13/2010
Number of Days to Update: 51	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/13/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/25/2011
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (404) 562-9900
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 12/10/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Biennially

UIC: Underground Injection Wells Database Listing

A listing of Class I wells. Class I wells are used to inject hazardous waste, nonhazardous waste, or municipal waste below the lowermost USDW.

Date of Government Version: 02/14/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 10

Source: Department of Environmental Protection
Telephone: 850-245-8655
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

The Drycleaners database, maintained by the Department of Environmental Protection, provides information about permitted dry cleaner facilities.

Date of Government Version: 01/04/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 02/24/2011
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 02/01/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

DEDB: Ethylene Dibromide Database Results

Ethylene dibromide (EDB), a soil fumigant, that has been detected in drinking water wells. The amount found exceeds the maximum contaminant level as stated in Chapter 62-550 or 520. It is a potential threat to public health when present in drinking water.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/03/2011
Date Made Active in Reports: 02/28/2011
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 850-245-8335
Last EDR Contact: 01/25/2011
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Varies

WASTEWATER: Wastewater Facility Regulation Database

Domestic and industrial wastewater facilities.

Date of Government Version: 02/04/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 10

Source: Department of Environmental Protection
Telephone: 850-921-9495
Last EDR Contact: 02/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing

A listing of Air Resources Management permits.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 02/24/2011
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 850-921-9558
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 09/28/2009
Date Data Arrived at EDR: 10/08/2009
Date Made Active in Reports: 10/27/2009
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 850-413-9970
Last EDR Contact: 01/03/2011
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FL Cattle Dip. Vats: Cattle Dipping Vats

From the 1910's through the 1950's, these vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides, such as DDT, were also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Date of Government Version: 02/04/2005	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/29/2007	Telephone: 850-488-3601
Date Made Active in Reports: 07/11/2007	Last EDR Contact: 01/17/2011
Number of Days to Update: 12	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: No Update Planned

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/21/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 08/31/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/01/2010	Telephone: 615-532-8599
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 02/22/2011
Number of Days to Update: 92	Next Scheduled EDR Contact: 05/09/2011
	Data Release Frequency: Varies

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

A listing of financial assurance information for storage tanks sites.

Date of Government Version: 02/02/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/08/2011	Telephone: 850-245-8853
Date Made Active in Reports: 02/24/2011	Last EDR Contact: 02/08/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities.

Date of Government Version: 02/07/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/08/2011	Telephone: 850-245-8743
Date Made Active in Reports: 02/24/2011	Last EDR Contact: 02/07/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing

A list of hazardous waste facilities required to provide financial assurance under RCRA.

Date of Government Version: 02/11/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/11/2011	Telephone: 850-245-8793
Date Made Active in Reports: 02/24/2011	Last EDR Contact: 02/07/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/18/2011
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2009	Telephone: N/A
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 12/21/2010
Number of Days to Update: 54	Next Scheduled EDR Contact: 03/28/2011
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 02/04/2011
Number of Days to Update: 100	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/21/2011
Number of Days to Update: 339	Next Scheduled EDR Contact: 05/02/2011
	Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALACHUA COUNTY:

Facility List

List of all regulated facilities in Alachua County.

Date of Government Version: 04/01/2010	Source: Alachua County Environmental Protection Department
Date Data Arrived at EDR: 04/19/2010	Telephone: 352-264-6800
Date Made Active in Reports: 05/12/2010	Last EDR Contact: 02/28/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Annually

BROWARD COUNTY:

Aboveground Storage Tanks

Aboveground storage tank locations in Broward County.

Date of Government Version: 12/08/2010	Source: Broward County Environmental Protection Department
Date Data Arrived at EDR: 12/09/2010	Telephone: 954-818-7509
Date Made Active in Reports: 01/06/2011	Last EDR Contact: 12/09/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Varies

Underground Storage Tanks

All known regulated storage tanks within Broward County, including those tanks that have been closed

Date of Government Version: 12/08/2010	Source: Broward County Environmental Protection Department
Date Data Arrived at EDR: 12/09/2010	Telephone: 954-818-7509
Date Made Active in Reports: 01/06/2011	Last EDR Contact: 12/09/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Annually

MIAMI-DADE COUNTY:

Air Permit Sites

Facilities that release or have a potential to release pollutants.

Date of Government Version: 12/07/2010	Source: Department of Environmental Resources Management
Date Data Arrived at EDR: 12/08/2010	Telephone: 305-372-6755
Date Made Active in Reports: 12/30/2010	Last EDR Contact: 12/08/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Semi-Annually

Grease Trap Sites

Any non-residential facility that discharges waste to a sanitary sewer.

Date of Government Version: 12/07/2010	Source: Dade County Dept. of Env. Resources Mgmt.
Date Data Arrived at EDR: 12/08/2010	Telephone: 305-372-6508
Date Made Active in Reports: 12/30/2010	Last EDR Contact: 12/08/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/21/2011
	Data Release Frequency: Semi-Annually

Marine Facilities Operating Permit

What is this permit used for? Miami-Dade County Ordinance 89-104 and Section 24-18 of the Code of Miami-Dade County require the following types of marine facilities to obtain annual operating permits from DERM: All recreational boat docking facilities with ten (10) or more boat slips, moorings, davit spaces, and vessel tie-up spaces. All boat storage facilities contiguous to tidal waters in Miami-Dade County with ten (10) or more dry storage spaces including boatyards and boat manufacturing facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/07/2010
Date Data Arrived at EDR: 12/08/2010
Date Made Active in Reports: 12/30/2010
Number of Days to Update: 22

Source: DERM
Telephone: 305-372-3576
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Quarterly

Miami River Enforcement

The Miami River Enforcement database files were created for facilities and in some instances vessels that were inspected by a workgroup within the Department that was identified as the Miami River Enforcement Group. The files do not all necessarily reflect enforcement cases and some were created for locations that were permitted by other Sections within the Department.

Date of Government Version: 12/07/2010
Date Data Arrived at EDR: 12/08/2010
Date Made Active in Reports: 12/30/2010
Number of Days to Update: 22

Source: DERM
Telephone: 305-372-3576
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Quarterly

Industrial Waste Permit Sites

Facilities that either generate more than 25,000 of wastewater per day to sanitary sewers or are pre-defined by EPA.

Date of Government Version: 12/07/2010
Date Data Arrived at EDR: 12/08/2010
Date Made Active in Reports: 12/30/2010
Number of Days to Update: 22

Source: Department of Environmental Resources Management
Telephone: 305-372-6700
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Semi-Annually

Enforcement Case Tracking System Sites

Enforcement cases monitored by the Dade County Department of Environmental Resources Management.

Date of Government Version: 12/07/2010
Date Data Arrived at EDR: 12/08/2010
Date Made Active in Reports: 12/30/2010
Number of Days to Update: 22

Source: Department of Environmental Resources Management
Telephone: 305-372-6755
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Semi-Annually

Fuel Spills Cases

DERM documents fuel spills of sites that are not in a state program.

Date of Government Version: 01/08/2009
Date Data Arrived at EDR: 01/13/2009
Date Made Active in Reports: 02/05/2009
Number of Days to Update: 23

Source: Department of Environmental Resources Management
Telephone: 305-372-6755
Last EDR Contact: 12/07/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Semi-Annually

Underground Storage Tanks

The facility has on-site underground storage tanks which stores petroleum product.

Date of Government Version: 12/07/2010
Date Data Arrived at EDR: 12/08/2010
Date Made Active in Reports: 01/06/2011
Number of Days to Update: 29

Source: Department of Environmental Resource Management
Telephone: 305-372-6700
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/25/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 02/18/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/16/2010
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Department of Children & Families

Source: Provider Information

Telephone: 850-488-4900

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Environmental Protection

Telephone: 850-245-8238

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LITTLE ROAD/MASSACHUSETTS AVENUE
LITTLE ROAD/MASSACHUSETTS AVENUE
NEW PORT RICHEY, FL 34655

TARGET PROPERTY COORDINATES

Latitude (North): 28.25880 - 28° 15' 31.7"
Longitude (West): 82.6745 - 82° 40' 28.2"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 335737.8
UTM Y (Meters): 3126835.2
Elevation: 24 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 28082-C6 PORT RICHEY, FL
Most Recent Revision: 1998

South Map: 28082-B6 ELFERS, FL
Most Recent Revision: 1998

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

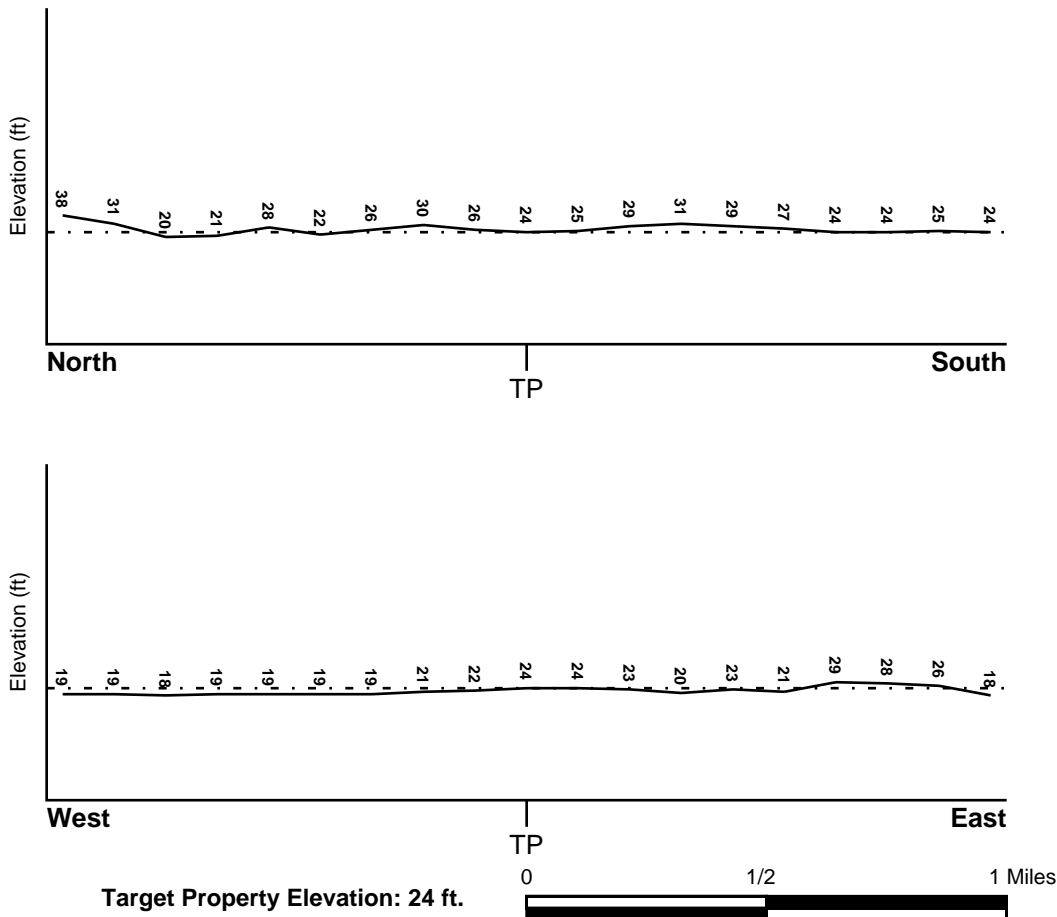
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> PASCO, FL	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	1202300195D - FEMA Q3 Flood data
Additional Panels in search area:	1202300189C - FEMA Q3 Flood data 1202300352C - FEMA Q3 Flood data 1202300360D - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> PORT RICHEY	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
---	--

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

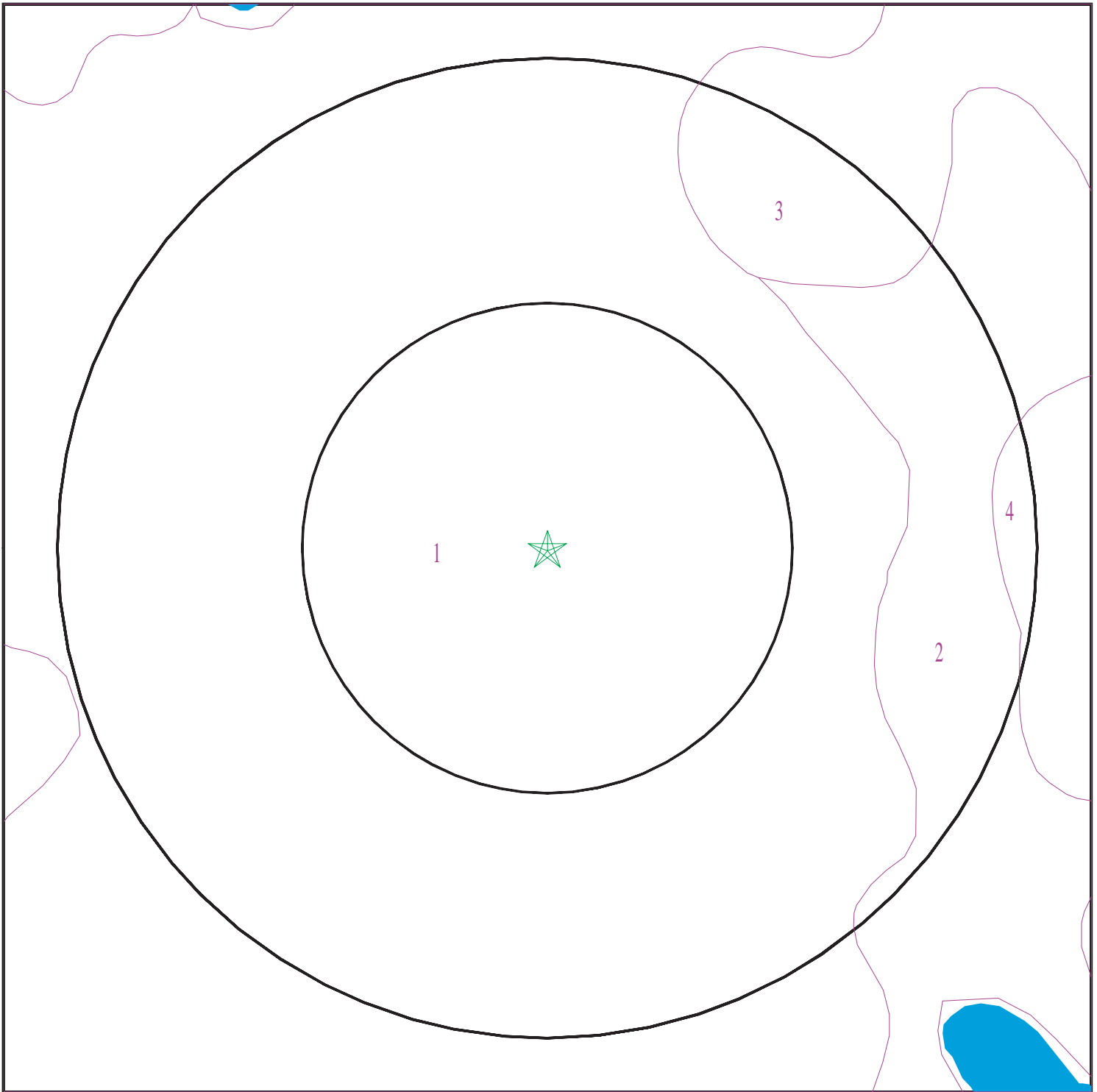
Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

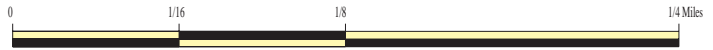
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3008116.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Little Road/Massachusetts Avenue
ADDRESS: Little Road/Massachusetts Avenue
New Port Richey FL 34655
LAT/LONG: 28.2588 / 82.6745

CLIENT: Universal Engineering Sciences
CONTACT: Kurt Hardy
INQUIRY #: 3008116.2s
DATE: March 08, 2011 9:53 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Tavares

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 145 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 353 Min: 141	Max: 6 Min: 3.6
2	3 inches	79 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 353 Min: 141	Max: 6 Min: 3.6

Soil Map ID: 2

Soil Component Name: Adamsville

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 4.5
2	7 inches	79 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 4.5

Soil Map ID: 3

Soil Component Name: Astatula

Soil Surface Texture: fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 353 Min: 141	Max: 6.5 Min: 4.5
2	5 inches	79 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 353 Min: 141	Max: 6.5 Min: 4.5

Soil Map ID: 4

Soil Component Name: Narcoossee

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	3 inches	9 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
3	9 inches	11 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
4	11 inches	75 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
E27	USGS2293918	1/2 - 1 Mile West
E28	USGS2293917	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

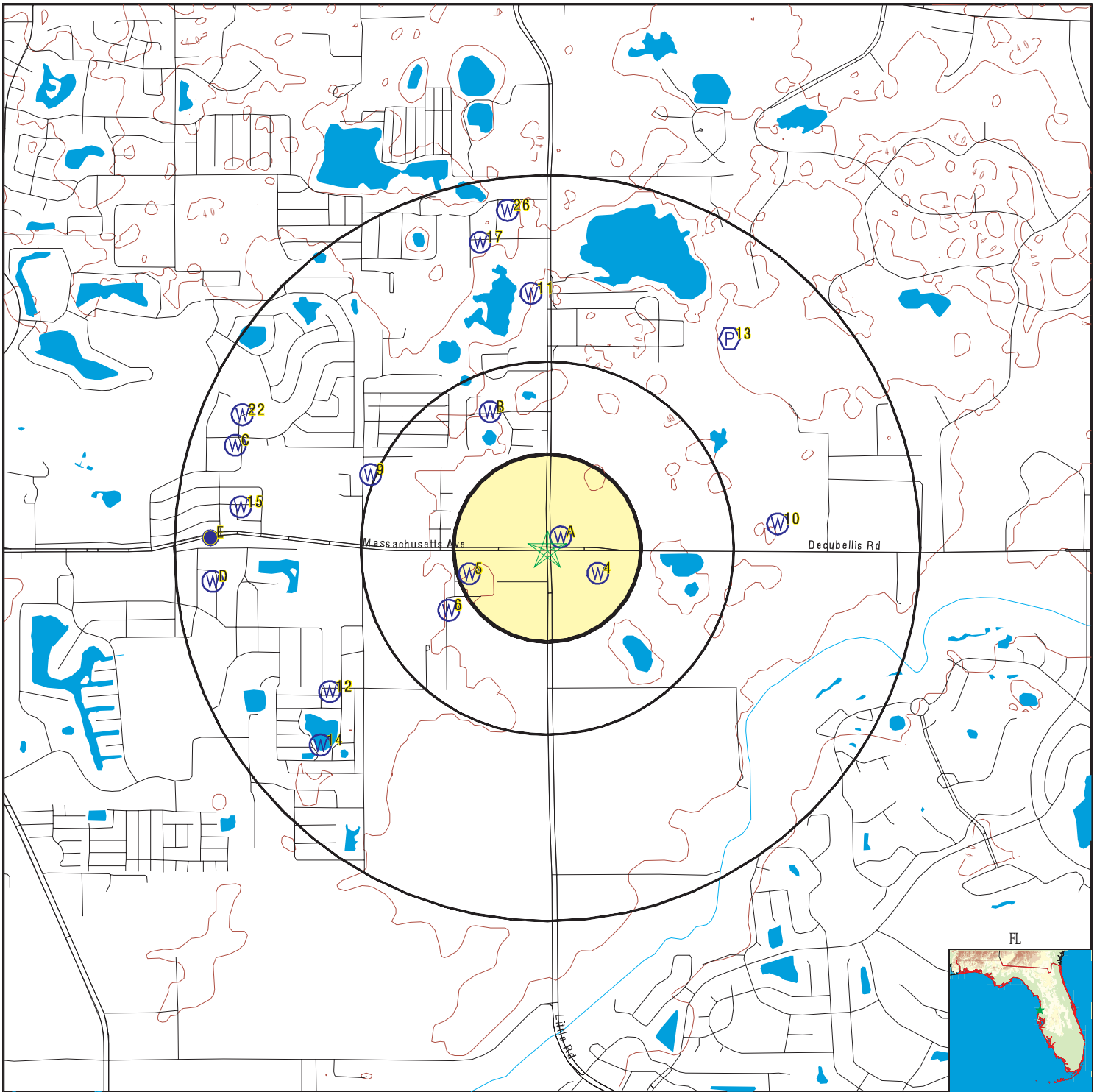
MAP ID	WELL ID	LOCATION FROM TP
13	FL6511307	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	FLSA50000040853	0 - 1/8 Mile North
A2	FLSA50000040894	0 - 1/8 Mile NNE
A3	FLSA50000040858	0 - 1/8 Mile ENE
4	FLSA50000040800	1/8 - 1/4 Mile ESE
5	FLSA50000040798	1/8 - 1/4 Mile WSW
6	FLSA50000040756	1/4 - 1/2 Mile WSW
B7	FLSA50000040961	1/4 - 1/2 Mile NNW
B8	FLSA50000040962	1/4 - 1/2 Mile NNW
9	FLDGW2000003101	1/2 - 1 Mile WNW
10	FLDGW2000003099	1/2 - 1 Mile East
11	FLSA50000041022	1/2 - 1 Mile North
12	FLSA50000040675	1/2 - 1 Mile WSW
14	FLSW40000021799	1/2 - 1 Mile SW
15	FLSA50000040908	1/2 - 1 Mile West
C16	FLSW40000021983	1/2 - 1 Mile WNW
17	FLSA50000041042	1/2 - 1 Mile NNW
C18	FLSW40000021980	1/2 - 1 Mile WNW
D19	FLSA50000040794	1/2 - 1 Mile West
E20	FLSW40000021940	1/2 - 1 Mile West
E21	FLDGW2000003096	1/2 - 1 Mile West
22	FLSW40000021990	1/2 - 1 Mile WNW
D23	FLSA50000040810	1/2 - 1 Mile West
C24	FLSW40000021987	1/2 - 1 Mile WNW
C25	FLSW40000021982	1/2 - 1 Mile WNW
26	FLSA50000041056	1/2 - 1 Mile North
D29	FLSA50000040768	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 3008116.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells
- Sink holes

SITE NAME: Little Road/Massachusetts Avenue
 ADDRESS: Little Road/Massachusetts Avenue
 New Port Richey FL 34655
 LAT/LONG: 28.2588 / 82.6745

CLIENT: Universal Engineering Sciences
 CONTACT: Kurt Hardy
 INQUIRY #: 3008116.2s
 DATE: March 08, 2011 9:53 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
North
0 - 1/8 Mile
Higher

FL WELLS FLSA50000040853

Fluwid:	510007701	Well type:	50
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.67449		
Latitude:	28.25891		
Well depth:	0		
Length:	0		
Diameter:	0	Permit num:	Not Reported
Comments:	RC-7/28/93, 8/20/93, 7/94,3/95		
Sanit seal:	Not Reported	Name:	Not Reported
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	02/06/03	Loc method:	ADDR
Project id:	ANDREW	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	PASCO	Address:	7005 LITTLE RD.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	7005 LITTLE RD.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	Not Reported	City:	NEW PORT RICHIE
Loc id:	469016		
Gps id:	469016		
Wsrp id:	510007701	Action:	NO ACTION AT THI
Port stat:	NON-POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040853		

A2
NNE
0 - 1/8 Mile
Higher

FL WELLS FLSA50000040894

Fluwid:	510007801	Well type:	50
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.67397		
Latitude:	28.25976		
Well depth:	0		
Length:	0		
Diameter:	0	Permit num:	Not Reported
Comments:	MTBE @ 100		
Sanit seal:	Not Reported	Name:	Not Reported
First name:	Not Reported	Last name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	02/06/03	Loc method:	DGPS
Project id:	ANDREW	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	PASCO	Address:	7030 LITTLE ROAD
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	7030 LITTLE ROAD
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	Not Reported	City:	NEW PORT RICHEY
Loc id:	469018		
Gps id:	469018		
Wsrp id:	510007801	Action:	CONNECTED TO PW
Port stat:	NON-POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040894		

**A3
ENE
0 - 1/8 Mile
Higher**

FL WELLS FLSA50000040858

Fluwid:	AAE8917	Well type:	43
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67327		
Latitude:	28.25903		
Well depth:	0		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Sanit seal:	No	Name:	PETE LITTLE
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	3.93		
Gps date:	03/06/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	8531 DECUBELLIS RD.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	8531 DECUBELLIS RD.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306962		
Gps id:	306962		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws design: 0
Pws verify: 0
Site id: FLSA50000040858

**4
ESE
1/8 - 1/4 Mile
Higher**

FL WELLS FLSA50000040800

Fluwid:	AAE8916	Well type:	43
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67227		
Latitude:	28.25782		
Well depth:	0		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Comments:	unable to verify address		
Sanit seal:	No	Name:	PETE LITTLE
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	4.3		
Gps date:	03/06/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	8620 DECUBELLIS RD.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	8620 DECUBELLIS RD.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306960		
Gps id:	306960		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040800		

**5
WSW
1/8 - 1/4 Mile
Lower**

FL WELLS FLSA50000040798

Fluwid:	AAE8915	Well type:	42
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67792		
Latitude:	28.2578		
Well depth:	68		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Comments:	Well AAE8915 was sampled on 11-28-06.		
Sanit seal:	No	Name:	GARY OXHOLM
First name:	Not Reported	Last name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	15.93		
Gps date:	03/06/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	8247 PALA COURT
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	8247 PALA COURT
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306958		
Gps id:	306958		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040798		

6

**WSW
1/4 - 1/2 Mile
Lower**

FL WELLS

FLSA50000040756

Fluidid:	AAF6089	Well type:	43
Status:	ACTIVE	Casing mat:	PVC
Longitude:	-82.67883		
Latitude:	28.25638		
Well depth:	260		
Length:	0		
Diameter:	4	Permit num:	Not Reported
Sanit seal:	Yes	Name:	LEIGH YOUNG
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	6.52		
Gps date:	08/22/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	6810 SHADY ACRES BLVD.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	6810 SHADY ACRES BLVD.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	314782		
Gps id:	314782		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws design: 0
Pws verify: 0
Site id: FLSA50000040756

**B7
NNW
1/4 - 1/2 Mile
Lower**

FL WELLS FLSA50000040961

Fluwid:	AAB4607	Well type:	46
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.67696		
Latitude:	28.2641		
Well depth:	0		
Length:	0		
Diameter:	Not Reported	Permit num:	6511307
Comments:	UNABLE TO SAMPLE, LOCKED DOOR, LIMAN DRIVE IS ADDRESS, DATUM 84		
Sanit seal:	Not Reported	Name:	ORANGELAND SUBDIVISION
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	12/02/02	Loc method:	DGPS
Project id:	DEP	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	LIMAN DRIVE
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	LIMAN DRIVE
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34655	City:	NEW PORT RICHEY
Loc id:	103504		
Gps id:	103504		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	100000		
Pws verify:	0		
Site id:	FLSA50000040961		

**B8
NNW
1/4 - 1/2 Mile
Lower**

FL WELLS FLSA50000040962

Fluwid:	AAB4608	Well type:	46
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.67707		
Latitude:	28.26411		
Well depth:	0		
Length:	0		
Diameter:	Not Reported	Permit num:	6511307
Comments:	UNABLE TO SAMPLE, LOCKED DOOR, LIMAN DRIVE IS ADDRESS, DATUM 84		
Sanit seal:	Not Reported	Name:	ORANGELAND SUBDIVISION
First name:	Not Reported	Last name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	12/02/02	Loc method:	DGPS
Project id:	DEP	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	2109 OVERVIEW DR
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	2109 OVERVIEW DR
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34655	City:	NEW PORT RICHEY
Loc id:	103506		
Gps id:	103506		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	100000		
Pws verify:	0		
Site id:	FLSA50000040962		

9
WNW
1/2 - 1 Mile
Lower

FL WELLS FLDGW2000003101

Area:	0		
Perimeter:	0	Depgwis 3 id:	3101
Pk station:	34229	Station id:	Not Reported
Station na:	ROMP TR16-3 FLORIDAN		
Station al:	Not Reported		
Storet ide:	Not Reported	Dep well i:	Not Reported
Florida un:	AAK9677	Property o:	Not Reported
Owner:	Not Reported	Owner mail:	Not Reported
Owner city:	Not Reported	Owner stat:	Not Reported
Owner zip:	Not Reported	Owner tele:	Not Reported
Contact ag:	Not Reported	Contact na:	Not Reported
Contact ad:	Not Reported		
Contact ci:	Not Reported	Contact zi:	Not Reported
Contact st:	Not Reported	Contact te:	Not Reported
Notificati:	Not Reported	Latitude:	281541.970
Longitude:	824056.165		
Location m:	DIFFERENTIALLY CORRECTED GLOBAL POSITIONING SYSTEM		
Locational:	WGS-84		
Latdeg:	28		
Latmin:	15		
Latsec:	41.97		
Longdeg:	82		
Longmin:	40		
Longsec:	56.165		
County cod:	51	County nam:	PASCO
Water mang:	SOUTHWEST FLORIDA WMD	Dep distri:	SOUTHWEST DISTRICT - TAMPA
Ecosystem :	SPRINGS COAST	Reporting :	SWFWMD-5
Tmdl basin:	SPRINGS COAST		
Hydrologic:	03100207		
Hydrologi1:	ANCLOTE-CRYSTAL RIVER	Waterbody :	AQUIFER
Water reso:	CONFINED AQUIFER	Waterbody1:	UNKNOWN

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Subaquifer:	Not Reported	Top of aqu:	Not Reported
Bottom of :	Not Reported	Well geolo:	Not Reported
Well litho:	Not Reported	Well drill:	Not Reported
Well hydro:	Not Reported	Confined:	Y
Surface wa:	Not Reported	Well drill1:	Not Reported
Well statu:	Not Reported		
Well type:	Not Reported	Well lift :	Not Reported
Well const:	Not Reported	Well casin:	494
Well total:	515	Well scree:	Not Reported
Well finis:	Not Reported	Well scre2:	Not Reported
Well scre1:	Not Reported		
Well scre3:	Not Reported	Land surfa:	Not Reported
Well casi1:	PVC, BOND UNKNOWN	Well water:	Not Reported
Well casi2:	6	Well grid :	Not Reported
Well measu:	Not Reported	Agency mai:	SWFWMD
Well lead :	Not Reported	Sampled vi:	N
Data sourc:	GWIS	Sampled tv:	N
Sampled ba:	N	Sampled wq:	N
Sampled hr:	N	Create dat:	39588.64369212963
Sampled st:	A	Last updat:	39630.42795138889
Fk random :	SW5-CA-2006	Lat mm:	15
Create use:	TRIMBLE	Long dd:	82
Lat dd:	28	Long ss:	56.165
Lat ss:	41.97	Dcd datum :	WGS84
Long mm:	40	Gis albx:	529026.21
Cmcd coord:	DGPS	Ooic objec:	Not Reported
Gqmc gis q:	Not Reported	Map sourc1:	Not Reported
Gis alby:	473543.87	Cac1 coord:	Not Reported
Map source:	Not Reported	Determinat:	Not Reported
Ppc point :	Not Reported	Collector1:	Not Reported
Collector :	Not Reported	Verify cmc:	Not Reported
Collect pa:	Not Reported	Verifying :	Not Reported
Verificati:	Not Reported	Locationa1:	Not Reported
Verifier u:	Not Reported	Bis distri:	SWD
Verifier a:	Not Reported	Planning u:	MIDDLE COASTAL
Fips count:	101		
Wbid:	1409		
Newlat:	28.261658		
Newlong:	-82.682268		
Site id:	FLDGW2000003101		

**10
East
1/2 - 1 Mile
Lower**

FL WELLS FLDGW2000003099

Area:	0	Depgwis 3 id:	3099
Perimeter:	0	Station id:	281533082395301
Pk station:	5705		
Station na:	281533082395301	Dep well i:	281533082395301
Station al:	Not Reported	Property o:	Not Reported
Storet ide:	281533082395301	Owner mail:	1590 Orchid Lake Rd
Florida un:	Not Reported	Owner stat:	FL
Owner:	Summers William		
Owner city:	NwPortRichey		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner zip:	33552	Owner tele:	8138495350
Contact ag:	FDEP	Contact na:	TOM BIERNACKI
Contact ad:	2600 BLAIRSTONE RD.		
Contact ci:	TALLAHASSEE	Contact zi:	32399-2400
Contact st:	FL	Contact te:	8509219595
Notificati:	Not Reported	Latitude:	281533
Longitude:	823953		
Location m:	DIGITAL MAP INTERPOLATION		
Locational:	NAD27		
Latdeg:	28		
Latmin:	15		
Latsec:	34.0288		
Longdeg:	82		
Longmin:	39		
Longsec:	52.3495		
County cod:	51	County nam:	PASCO
Water mang:	SOUTHWEST FLORIDA WMD	Dep distri:	SOUTHWEST DISTRICT - TAMPA
Ecosystem :	SPRINGS COAST	Reporting :	SWFWMD-A
Tmdl basin:	SPRINGS COAST		
Hydrologic:	03100207		
Hydrologi1:	ANCLOTE-CRYSTAL RIVER	Waterbody :	AQUIFER
Water reso:	UNCONFINED AQUIFER	Waterbody1:	FLORIDAN AQUIFER SYSTEM
Subaquifer:	Not Reported	Top of aqu:	Not Reported
Bottom of :	Not Reported	Well geolo:	Not Reported
Well litho:	Not Reported	Well drill:	Y
Well hydro:	Not Reported	Confined:	N
Surface wa:	Not Reported	Well drill1:	31364
Well statu:	NON-FLOWING,ACTIVELY PUMPED		
Well type:	PRIVATE DRINKING WATER WELL		
Well const:	Not Reported	Well lift :	Not Reported
Well total:	50	Well casin:	42
Well finis:	Not Reported	Well scree:	42
Well scre1:	50	Well scre2:	Not Reported
Well scre3:	Not Reported		
Well casi1:	GALVANIZED IRON OR GALVANIZED STEEL		
Well casi2:	2	Land surfa:	Not Reported
Well measu:	Not Reported	Well water:	Not Reported
Well lead :	Not Reported	Well grid :	22515
Data sourc:	HRSSSTNS	Agency mai:	DEP AMBIENT WATER QUALITY MONITORING
Sampled ba:	N	Sampled vi:	N
Sampled hr:	I	Sampled tv:	N
Sampled st:	N	Sampled wq:	N
Comments:	T25S/R16E/Sec 34;Lots of iron in water.;#19		
Fk random :	Not Reported	Create dat:	Not Reported
Create use:	Not Reported	Last updat:	Not Reported
Lat dd:	28	Lat mm:	15
Lat ss:	33	Long dd:	82
Long mm:	39	Long ss:	53
Cmcd coord:	MMAP	Dcd datum :	NAD27
Gqmc gis q:	Not Reported	Gis albx:	530776.61
Gis alby:	473350.36	Ooic objec:	Not Reported
Map source:	Not Reported	Map sourc1:	Not Reported
Ppc point :	Not Reported	Cac1 coord:	Not Reported
Collector :	Not Reported	Determinat:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Collect pa:	Not Reported	Collector1:	Not Reported
Verificati:	Not Reported	Verify cmc:	Not Reported
Verifier u:	Not Reported	Verifying :	Not Reported
Verifier a:	Not Reported	Locationa1:	Not Reported
Fips count:	101	Bis distri:	SWD
Wbid:	1409	Planning u:	MIDDLE COASTAL
Newlat:	28.259452		
Newlong:	-82.664542		
Site id:	FLDGW2000003099		

**11
North
1/2 - 1 Mile
Lower**

FL WELLS FLSA50000041022

Fluwid:	TREE	Well type:	43
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67521		
Latitude:	28.26872		
Well depth:	0		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Comments:	WELL HEAD SUBMERSED NEXT TO SHED		
Sanit seal:	No	Name:	WAYNE MAZZOLA
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	-23.76		
Gps date:	04/11/00	Loc method:	DGPS OFFSET
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	2551 ATWELL CT.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	2551 ATWELL CT.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34655	City:	New Port Richey
Loc id:	329876		
Gps id:	329876		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000041022		

**12
WSW
1/2 - 1 Mile
Lower**

FL WELLS FLSA50000040675

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fluwid:	AAB4606	Well type:	40
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.68407		
Latitude:	28.25321		
Well depth:	0		
Length:	0		
Diameter:	Not Reported	Permit num:	6512069
Comments:	Population served: 860 - DATUM 83		
Sanit seal:	Not Reported	Name:	ORANGEWOOD LAKES MHP
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	1		
Datum:	WS1984		
Hae:	0		
Gps date:	08/02/99	Loc method:	DGPS
Project id:	DEP	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	7542 US HWY 19 NO.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	7542 US HWY 19 NO.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34652	City:	NEW PORT RICHEY
Loc id:	103502		
Gps id:	103502		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	375000		
Pws verify:	0		
Site id:	FLSA50000040675		

**13
NE
1/2 - 1 Mile
Lower**

FRDS PWS FL6511307

Pwsid:	FL6511307	Epa region:	04
State:	FL	County:	Pasco
Pws name:	ORANGELAND SUBDIVISION		
Population Served:	186	Pwssvconn:	70
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	132136511307		
Facility name:	ORANGELAND S/D PLANT #1		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	FRED SNELL		
Original name:	FRED SNELL		
Contact phone:	727-372-8330	Contact address1:	2109 OVERVIEW DR
Contact address2:	Not Reported		
Contact city:	NEW PORT RICHEY		
Contact zip:	34655		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid: FL6511307 Epa region: 04
 State: FL County: Pasco
 Pws name: ORANGELAND SUBDIVISION
 Population Served: 186 Pwssvcconn: 70
 PWS Source: Groundwater
 Pws type: CWS
 Status: Active Owner type: Private
 Facility id: 1539814678
 Facility name: ORANGELAND S/D WELL #1
 Facility type: Well Treatment process: hypochlorination, post
 Treatment objective: disinfection
 Contact name: FRED SNELL
 Original name: FRED SNELL
 Contact phone: 727-372-8330 Contact address1: 2109 OVERVIEW DR
 Contact address2: Not Reported
 Contact city: NEW PORT RICHEY
 Contact zip: 34655

Pwsid: FL6511307 Epa region: 04
 State: FL County: Pasco
 Pws name: ORANGELAND SUBDIVISION
 Population Served: 186 Pwssvcconn: 70
 PWS Source: Groundwater
 Pws type: CWS
 Status: Active Owner type: Private
 Facility id: 1539914679
 Facility name: WELL #2
 Facility type: Well Treatment process: hypochlorination, post
 Treatment objective: disinfection
 Contact name: FRED SNELL
 Original name: FRED SNELL
 Contact phone: 727-372-8330 Contact address1: 2109 OVERVIEW DR
 Contact address2: Not Reported
 Contact city: NEW PORT RICHEY
 Contact zip: 34655

PWS ID: FL6511307
 Date Initiated: Not Reported Date Deactivated: Not Reported
 PWS Name: ORANGELAND SUBDIVISION
 2109 OVERVIEW DR
 NEW PORT RICHEY, FL 34655

Addressee / Facility: System Owner/Responsible Party
 FRED SNELL
 FRED SNELL
 2109 OVERVIEW DR
 NEW PORT RICHEY, FL 34655

Facility Latitude: 28 16 0.0000 Facility Longitude: 82 40 0.0000
 City Served: Not Reported
 Treatment Class: Treated Population: 186

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	93V0001	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	02/01/93	Vio. end Date:	02/28/93	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:	Not Reported		
Analysis Result:	Not Reported	Maximum Contaminant Level:	Not Reported		
Analysis Method:	Not Reported				
Violation Type:	MCL, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	020193				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	FL6511307
Pwsname:	ORANGELAND SUBDIVISION		
Retpopsrvd:	186	Pwstypecod:	C
Void:	20040012310	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	9/1/2004 0:00:00		
Complperen:	9/30/2004 0:00:00	Enfdate:	11/24/2004 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		
Truedate:	03/31/2009	Pwsid:	FL6511307
Pwsname:	ORANGELAND SUBDIVISION		
Retpopsrvd:	186	Pwstypecod:	C
Void:	20040012310	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	9/1/2004 0:00:00		
Complperen:	9/30/2004 0:00:00	Enfdate:	12/8/2004 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		
Truedate:	03/31/2009	Pwsid:	FL6511307
Pwsname:	ORANGELAND SUBDIVISION		
Retpopsrvd:	186	Pwstypecod:	C
Void:	20050000552	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2004 0:00:00		
Complperen:	10/31/2004 0:00:00	Enfdate:	11/24/2004 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		
Truedate:	03/31/2009	Pwsid:	FL6511307
Pwsname:	ORANGELAND SUBDIVISION		
Retpopsrvd:	186	Pwstypecod:	C
Void:	20050000552	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2004 0:00:00		
Complperen:	10/31/2004 0:00:00	Enfdate:	12/8/2004 0:00:00
Enf action:	State Public Notif Received		
Violmeasur:	Not Reported		
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2004 0:00:00 - 9/30/2004 0:00:00		
Violation ID:	20040012310		
Enforcement Date:	12/8/2004 0:00:00	Enf. Action:	State Public Notif Received
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2004 0:00:00 - 9/30/2004 0:00:00		
Violation ID:	20040012310		
Enforcement Date:	11/24/2004 0:00:00	Enf. Action:	State Violation/Reminder Notice

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2004 0:00:00 - 9/30/2004 0:00:00		
Violation ID:	20040012310		
Enforcement Date:	11/24/2004 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2004 0:00:00 - 9/30/2004 0:00:00		
Violation ID:	20040012310		
Enforcement Date:	12/8/2004 0:00:00	Enf. Action:	State Public Notif Received
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2004 0:00:00 - 10/31/2004 0:00:00		
Violation ID:	20050000552		
Enforcement Date:	12/8/2004 0:00:00	Enf. Action:	State Public Notif Received
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2004 0:00:00 - 10/31/2004 0:00:00		
Violation ID:	20050000552		
Enforcement Date:	11/24/2004 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2004 0:00:00 - 10/31/2004 0:00:00		
Violation ID:	20050000552		
Enforcement Date:	11/24/2004 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	ORANGELAND SUBDIVISION		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2004 0:00:00 - 10/31/2004 0:00:00		
Violation ID:	20050000552		
Enforcement Date:	12/8/2004 0:00:00	Enf. Action:	State Public Notif Received

CONTACT INFORMATION:

Name:	ORANGELAND SUBDIVISION	Population:	186
Contact:	FRED SNELL	Phone:	Not Reported
Address:	2109 OVERVIEW DR		
Address 2:	NEW PORT RICHEY		
	FL, 34 727-3		

14
SW
1/2 - 1 Mile
Lower

FL WELLS FLSW40000021799

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well const:	Not Reported	Did status:	Existing
Did type:	Withdrawal of Groundwater	Well use:	Public Supply
Did daily:	150000		
Did dail 1:	0		
Did dail 2:	180000		
Casing dep:	56		
Casing dia:	8		
Well depth:	365		
Latitude:	28 15 4.07	Longitude:	82 41 4.12
Utme:	334750.21611		
Utmn:	3126171.916437		
Section id:	3		
Township i:	26		
Range id:	16		
County:	PASCO		
Permittee:	ORANGEWOOD LAKES MOBILE HOME COMMUNITY INC		
Permit iss:	06/01/1993	Permit cla:	Renewal
Permit pre:	PUBLIC SUPPLY	Line1 addr:	7602 CONGRESS ST STE 4
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	8426255

**15
West
1/2 - 1 Mile
Lower**

FL WELLS FLSA50000040908

Fluwid:	510007301	Well type:	40
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.68798		
Latitude:	28.2604		
Well depth:	0		
Length:	0		
Diameter:	0	Permit num:	Not Reported
Sanit seal:	Not Reported	Name:	Not Reported
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	02/06/03	Loc method:	MMAP
Project id:	ANDREW	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	PASCO	Address:	RAINTREE & MAGNOLIA VALLEY DR.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	RAINTREE & MAGNOLIA VALLEY DR.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	Not Reported	City:	NEW PORT RICHEY
Loc id:	469008		
Gps id:	469008		
Wsrp id:	510007301	Action:	UNFILTERED
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws design: 0
 Pws verify: 0
 Site id: FLSA50000040908

C16
WNW
1/2 - 1 Mile
Lower

FL WELLS FLSW40000021983

Well const:	Not Reported	Did status:	Existing
Did type:	Withdrawal of Groundwater	Well use:	Irrigation
Did daily:	250		
Did dail 1:	0		
Did dail 2:	500		
Casing dep:	130		
Casing dia:	8		
Well depth:	274		
Latitude:	28 15 46	Longitude:	82 41 14.99
Utme:	334471.957083		
Utmn:	3127466.625963		
Section id:	34		
Township i:	25		
Range id:	16		
County:	PASCO		
Permittee:	PETER M & HELEN K LENHARDT TST		
Permit iss:	04/14/2009	Permit cla:	Renewal
Permit pre:	RECREATION/AESTHETIC	Line1 addr:	7223 MASSACHUSETTS AVENUE
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	4467383

17
NNW
1/2 - 1 Mile
Higher

FL WELLS FLSA50000041042

Fluwid:	AAE8935	Well type:	40
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67745		
Latitude:	28.27071		
Well depth:	0		
Length:	0		
Diameter:	4	Permit num:	51-57-00018
Sanit seal:	No	Name:	KELLY RENTALS
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	5.84		
Gps date:	03/28/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	8312 EMMONS AVE
Number :	Not Reported	Predir:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Prefix:	Not Reported	Street:	8312 EMMONS AVE
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306998		
Gps id:	306998		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000041042		

**C18
WNW
1/2 - 1 Mile
Lower**

FL WELLS FLSW40000021980

Well const:	Not Reported	Did status:	Existing
Did type:	Withdrawal of Groundwater	Well use:	Irrigation
Did daily:	500		
Did dail 1:	0		
Did dail 2:	1000		
Casing dep:	130		
Casing dia:	8		
Well depth:	204		
Latitude:	28 15 45.2	Longitude:	82 41 18
Utme:	334389.585371		
Utmn:	3127443.146983		
Section id:	34		
Township i:	25		
Range id:	16		
County:	PASCO		
Permittee:	PETER M & HELEN K LENHARDT TST		
Permit iss:	04/14/2009	Permit cla:	Renewal
Permit pre:	RECREATION/AESTHETIC	Line1 addr:	7223 MASSACHUSETTS AVENUE
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	4467383

**D19
West
1/2 - 1 Mile
Lower**

FL WELLS FLSA50000040794

Fluwid:	510007401	Well type:	41
Status:	ACTIVE	Casing mat:	Not Reported
Longitude:	-82.68895		
Latitude:	28.25768		
Well depth:	0		
Length:	0		
Diameter:	0	Permit num:	Not Reported
Sanit seal:	Not Reported	Name:	Not Reported
First name:	Not Reported	Last name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	0		
Gps date:	02/06/03	Loc method:	MMAP
Project id:	ANDREW	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	PASCO	Address:	225 MASS AVE.
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	225 MASS AVE.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	Not Reported	City:	NEW PORT RICHEY
Loc id:	469010		
Gps id:	469010		
Wsrp id:	510007401	Action:	UNFILTERED
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040794		

E20
West
1/2 - 1 Mile
Lower

FL WELLS FLSW40000021940

Well const:	Not Reported	Did status:	Existing
Did type:	Monitor	Well use:	Not Reported
Did daily:	0		
Did dail 1:	0		
Did dail 2:	0		
Casing dep:	0		
Casing dia:	8		
Well depth:	890		
Latitude:	28 15 33.25	Longitude:	82 41 20.66
Utme:	334311.959722		
Utmn:	3127076.344295		
Section id:	3		
Township i:	26		
Range id:	17		
County:	PASCO		
Permittee:	TAMPA BAY WATER		
Permit iss:	01/01/1999	Permit cla:	New
Permit pre:	PUBLIC SUPPLY	Line1 addr:	2575 ENTERPRISE RD
Line2 addr:	Not Reported	City name:	CLEARWATER
State fips:	FL	Zip cd:	337631102
Phone area:	Not Reported	Phone nbr:	Not Reported

E21
West
1/2 - 1 Mile
Lower

FL WELLS FLDGW2000003096

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Area:	0	Depgwis 3 id:	3096
Perimeter:	0	Station id:	281652082423301
Pk station:	1058		
Station na:	PORT RICHEY CITY DP		
Station al:	Not Reported		
Storet ide:	281652082423301	Dep well i:	281652082423301
Florida un:	Not Reported	Property o:	City of Port Richey
Owner:	Not Reported	Owner mail:	8624 Port Richey Village
Owner city:	Port Richey	Owner stat:	FL
Owner zip:	34668	Owner tele:	8138497544
Contact ag:	Not Reported	Contact na:	Not Reported
Contact ad:	8624 Port Richey Village		
Contact ci:	Port Richey	Contact zi:	34668
Contact st:	FL	Contact te:	8138497544
Notificati:	O	Latitude:	281533.262
Longitude:	824120.726		
Location m:	DIFFERENTIALLY CORRECTED GLOBAL POSITIONING SYSTEM		
Locational:	NAD83		
Latdeg:	28		
Latmin:	15		
Latsec:	33.2575		
Longdeg:	82		
Longmin:	41		
Longsec:	20.7179		
County cod:	51	County nam:	PASCO
Water mang:	SOUTHWEST FLORIDA WMD	Dep distri:	SOUTHWEST DISTRICT - TAMPA
Ecosystem :	SPRINGS COAST	Reporting :	SWFWMD-A
Tmdl basin:	SPRINGS COAST		
Hydrologic:	03100207		
Hydrologi1:	ANCLOTE-CRYSTAL RIVER	Waterbody :	AQUIFER
Water reso:	UNCONFINED AQUIFER	Waterbody1:	FLORIDAN AQUIFER SYSTEM
Subaquifer:	FLORIDAN AQUIFER	Top of aqu:	Not Reported
Bottom of :	Not Reported	Well geolo:	N
Well litho:	Not Reported	Well drill:	N
Well hydro:	N	Confined:	N
Surface wa:	Not Reported	Well drill1:	Not Reported
Well statu:	Not Reported		
Well type:	Not Reported		
Well const:	Not Reported	Well lift :	Not Reported
Well total:	200	Well casin:	104
Well finis:	Not Reported	Well scree:	Not Reported
Well scre1:	Not Reported	Well scre2:	Not Reported
Well scre3:	Not Reported		
Well casi1:	BLACK IRON OR BLACK STEEL		
Well casi2:	Not Reported	Land surfa:	21.79
Well measu:	32.00	Well water:	I
Well lead :	Not Reported	Well grid :	22515
Data sourc:	SWFSTNS	Agency mai:	SWFWMD
Sampled ba:	A	Sampled vi:	N
Sampled hr:	N	Sampled tv:	N
Sampled st:	N	Sampled wq:	N
Comments:	;;101038-F SESENW S28 T25S R16E		
Fk random :	Not Reported	Create dat:	Not Reported
Create use:	Not Reported	Last updat:	Not Reported
Lat dd:	28	Lat mm:	15
Lat ss:	33.262	Long dd:	82
Long mm:	41	Long ss:	20.726
Cmcd coord:	DGPS	Dcd datum :	NAD83
Gqmc gis q:	Not Reported	Gis albx:	528361.28
Gis alby:	473268	Ooic objec:	Not Reported
Map source:	Not Reported	Map sourc1:	Not Reported
Ppc point :	Not Reported	Cac1 coord:	Not Reported
Collector :	Not Reported	Determinat:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Collect pa:	Not Reported	Collector1:	Not Reported
Verificati:	Not Reported	Verify cmc:	Not Reported
Verifier u:	Not Reported	Verifying :	Not Reported
Verifier a:	Not Reported	Locationa1:	Not Reported
Fips count:	101	Bis distri:	SWD
Wbid:	1409	Planning u:	MIDDLE COASTAL
Newlat:	28.259238		
Newlong:	-82.689088		
Site id:	FLDGW2000003096		

22
WNW
1/2 - 1 Mile
Lower

FL WELLS FLSW40000021990

Well const:	Not Reported	Did status:	Existing
Did type:	Alternative Use	Well use:	Irrigation
Did daily:	190800		
Did dail 1:	0		
Did dail 2:	432400		
Casing dep:	0		
Casing dia:	0		
Well depth:	0		
Latitude:	28 15 50.37	Longitude:	82 41 16.49
Utme:	334432.9595		
Utmn:	3127601.8136		
Section id:	34		
Township i:	25		
Range id:	16		
County:	PASCO		
Permittee:	PETER M & HELEN K LENHARDT TST		
Permit iss:	04/14/2009	Permit cla:	Renewal
Permit pre:	RECREATION/AESTHETIC	Line1 addr:	7223 MASSACHUSETTS AVENUE
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	4467383

D23
West
1/2 - 1 Mile
Lower

FL WELLS FLSA50000040810

Fluwid:	AAE8914	Well type:	43
Status:	ACTIVE	Casing mat:	PVC
Longitude:	-82.68913		
Latitude:	28.25801		
Well depth:	0		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Sanit seal:	No	Name:	LOTTIE POSTMA
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	7.32		
Gps date:	03/06/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	6930 STELL DR.
Number :	Not Reported	Predir:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Prefix:	Not Reported	Street:	6930 STELL DR.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306956		
Gps id:	306956		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040810		

**C24
WNW
1/2 - 1 Mile
Lower**

FL WELLS FLSW40000021987

Well const:	338511	Did status:	Existing
Did type:	Withdrawal of Groundwater	Well use:	Irrigation
Did daily:	250		
Did dail 1:	0		
Did dail 2:	500		
Casing dep:	84		
Casing dia:	8		
Well depth:	130		
Latitude:	28 15 47.9	Longitude:	82 41 18
Utme:	334390.745282		
Utmn:	3127526.251555		
Section id:	34		
Township i:	25		
Range id:	16		
County:	PASCO		
Permittee:	PETER M & HELEN K LENHARDT TST		
Permit iss:	04/14/2009	Permit cla:	Renewal
Permit pre:	RECREATION/AESTHETIC	Line1 addr:	7223 MASSACHUSETTS AVENUE
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	4467383

**C25
WNW
1/2 - 1 Mile
Lower**

FL WELLS FLSW40000021982

Well const:	488775	Did status:	Plugged
Did type:	Withdrawal of Groundwater	Well use:	General Recreational
Did daily:	0		
Did dail 1:	0		
Did dail 2:	0		
Casing dep:	84		
Casing dia:	8		
Well depth:	125		
Latitude:	28 15 45.25	Longitude:	82 41 19.29
Utme:	334354.451903		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utmn:	3127445.176669		
Section id:	34		
Township i:	25		
Range id:	16		
County:	PASCO		
Permittee:	PETER M & HELEN K LENHARDT TST		
Permit iss:	04/14/2009	Permit cla:	Renewal
Permit pre:	RECREATION/AESTHETIC	Line1 addr:	7223 MASSACHUSETTS AVENUE
Line2 addr:	Not Reported	City name:	NEW PORT RICHEY
State fips:	FL	Zip cd:	34653
Phone area:	727	Phone nbr:	4467383

**26
North
1/2 - 1 Mile
Higher**

FL WELLS FLSA50000041056

Fluwid:	AAE8936	Well type:	40
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.67625		
Latitude:	28.27195		
Well depth:	0		
Length:	0		
Diameter:	4	Permit num:	51-57-00133
Sanit seal:	Yes	Name:	BLUEBERRY HILL TP
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	16.77		
Gps date:	03/28/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	5295 BLUEBERRY HILL RD
Number :	Not Reported	Predir:	Not Reported
Prefix:	Not Reported	Street:	5295 BLUEBERRY HILL RD
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	307000		
Gps id:	307000		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000041056		

**E27
West
1/2 - 1 Mile
Lower**

FED USGS USGS2293918

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	281532082412302
Site name:	NEW PORT RICHEY SHALLOW	NEAR NEW PORT RICHEY FL	
Latitude:	281532	EDR Site id:	USGS2293918
Longitude:	0824123	Dec lat:	28.25917606
Dec lon:	-82.68954436	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	124
State:	12	County:	101
Country:	US	Land net:	SWSWSES34 T25S R16E
Location map:	PORT RICHEY	Map scale:	24000
Altitude:	17.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	CrystalPithlachascotee. Florida. Area = 1290 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19680101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	LIMESTONE AQUIFER		
Well depth:	120	Hole depth:	Not Reported
Source of depth data:	owner		
Project number:	459600200		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1968-11-05
Water quality data end date:	1987-09-09	Water quality data count:	121
Ground water data begin date:	1968-10-01	Ground water data end date:	1982-06-01
Ground water data count:	138		

Ground-water levels, Number of Measurements: 138

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-06-01		12.01	1982-05-12		11.43
1982-05-05		11.65	1982-04-01		12.66
1982-03-02		12.00	1982-02-02		12.36
1982-01-05		12.32	1981-12-03		10.73
1981-11-03		10.91	1981-09-23		12.19
1981-09-02		12.36	1981-07-02		11.47
1981-06-01		10.66	1981-05-20		10.72
1981-05-04		10.94	1981-04-01		12.12
1981-03-02		12.20	1981-01-09		11.68
1980-12-01		12.65	1980-11-04		11.79
1980-09-17		12.84	1980-09-08		13.07
1980-08-04		12.38	1980-07-07		11.94
1980-06-02		11.90	1980-05-13		12.19
1980-05-06		12.16	1980-04-02		12.87
1980-03-10		12.62	1980-02-04		12.43
1980-01-08		12.63	1979-07-31		12.05
1979-06-28		12.44	1979-05-03		11.77
1979-03-27		12.88	1979-03-01		12.94
1979-02-06		12.75	1979-01-12		12.42
1978-12-05		11.59	1978-11-03		11.94
1978-10-10		12.49	1978-09-25		12.83
1978-09-08		13.10	1978-06-30		11.92

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1978-06-08		12.06	1978-04-26		12.44
1978-04-03		12.80	1978-02-01		12.17
1977-12-27		11.36	1977-12-07		11.50
1977-11-01		11.70	1977-08-03		12.00
1977-06-01		10.37	1977-03-29		11.60
1977-02-10		11.93	1976-11-30		11.70
1976-11-04		11.95	1976-10-05		12.64
1976-09-07		12.39	1976-07-28		12.45
1976-06-30		13.24	1976-06-04		10.07
1976-05-12		9.84	1976-04-07		10.30
1976-02-05		11.20	1975-12-12		11.98
1975-05-27		9.51	1975-05-14		9.73
1975-02-25		11.25	1975-01-02		11.22
1974-10-28		12.50	1974-10-28	4.50	
1974-09-05	2.96		1974-07-10	2.46	
1974-05-22		11.62	1974-05-22	5.38	
1974-03-05	6.94		1974-03-05		10.06
1974-01-03	5.76		1974-01-03		11.24
1973-11-06		10.92	1973-11-06	6.08	
1973-09-05		11.86	1973-09-05	5.14	
1973-07-10	6.70		1973-07-10		10.30
1973-05-15		11.95	1973-05-15	5.05	
1973-03-07		12.14	1973-03-07	4.86	
1973-01-09	4.05		1973-01-09		12.95
1972-11-07	6.24		1972-11-07		10.76
1972-09-06		11.96	1972-09-06	5.04	
1972-07-05	5.93		1972-07-05		11.07
1972-05-10	6.25		1972-05-10		10.75
1972-03-01	4.95		1972-03-01		12.05
1972-01-04	5.17		1972-01-04		11.83
1971-11-03	3.72		1971-09-01		12.55
1971-09-01	4.45		1971-07-01		11.03
1971-07-01	5.97		1971-05-18	6.23	
1971-05-18		10.77	1971-03-08		11.70
1971-03-08	5.30		1971-01-11		10.80
1971-01-11	6.20		1970-11-16	6.25	
1970-11-16		10.75	1970-09-14	5.58	
1970-09-14		11.42	1970-07-08		11.73
1970-07-08	5.27		1970-05-12	4.60	
1970-05-12		12.40	1970-03-10	2.21	
1970-01-06	2.35		1969-11-03	3.41	
1969-09-03	3.06		1969-07-08		11.62
1969-07-08	5.38		1969-05-07		11.60
1969-05-07	5.40		1969-03-04	5.25	
1969-03-04		11.75	1969-01-05	5.07	
1969-01-05		11.93	1968-11-05		12.39
1968-11-05	4.61		1968-10-01	4.00	

**E28
West
1/2 - 1 Mile
Lower**

FED USGS USGS2293917

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	281532082412301
Site name:	NEW PORT RICHEY DEEP NEAR NEW PORT RICHEY FL		
Latitude:	281532	EDR Site id:	USGS2293917
Longitude:	0824123	Dec lat:	28.25917606
Dec lon:	-82.68954436	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	124
State:	12	County:	101
Country:	US	Land net:	SWSWSES34 T25S R16E
Location map:	PORT RICHEY	Map scale:	24000
Altitude:	16.53		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.0		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	CrystalPithlachascotee. Florida. Area = 1290 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19680101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FLORIDAN AQUIFER		
Well depth:	582	Hole depth:	Not Reported
Source of depth data:	owner		
Project number:	459600200		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	1996-09-09	Water quality data begin date:	1968-11-05
Ground water data begin date:	1968-10-01	Water quality data count:	192
Ground water data count:	212	Ground water data end date:	1996-09-09

Ground-water levels, Number of Measurements: 212

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1996-09-09		4.35	1996-05-20		4.76
1995-09-14		6.75	1995-05-22		3.40
1994-09-13		5.18	1994-05-23		3.91
1993-09-13		4.97	1993-05-21		4.17
1992-09-17		5.40	1992-05-11		3.26
1991-09-18		7.03	1991-05-15		3.37
1990-09-13		4.75	1990-05-18		2.83
1989-09-15		4.38	1989-05-19		3.34
1988-09-22		8.36	1988-05-20		3.91
1987-09-16		7.18	1987-09-04		7.27
1987-05-20		7.14	1986-09-16		6.61
1986-09-03		6.99	1986-05-13		6.33
1986-05-07		6.40	1985-09-11		8.88
1985-05-15		4.88	1985-05-08		5.03
1985-05-02		5.06	1984-09-12		9.66
1984-08-29		9.47	1984-05-18		6.88
1984-05-01		7.38	1983-09-13		8.12
1983-09-02		8.06	1983-05-19		7.37
1983-05-04		8.15	1982-10-05		9.47
1982-09-16		8.11	1982-09-08		8.39
1982-08-03		8.63	1982-07-02		9.42
1982-06-01		6.34	1982-05-12		5.79

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-05-05		6.02	1982-04-01		6.98
1982-03-02		6.31	1982-02-02		6.71
1982-01-05		6.61	1981-12-02		5.11
1981-11-03		5.23	1981-09-23		6.45
1981-09-02		6.63	1981-07-02		5.75
1981-05-29		5.06	1981-05-20		5.03
1981-05-04		5.24	1981-04-01		6.35
1981-03-02		6.42	1981-01-09		5.91
1980-12-01		6.83	1980-11-04		6.00
1980-09-09		7.12	1980-09-08		7.31
1980-08-04		6.38	1980-07-07		6.08
1980-06-02		6.19	1980-05-13		6.41
1980-05-06		6.46	1980-05-01		6.64
1980-04-02		7.21	1980-03-10		6.96
1980-02-04		6.87	1980-02-01		6.99
1980-01-08		7.18	1979-12-03		7.87
1979-11-01		8.98	1979-09-20		9.76
1979-09-11		9.91	1979-07-31		6.76
1979-06-28		7.22	1979-06-05		8.38
1979-05-18		9.08	1979-05-03		6.59
1979-03-27		7.69	1979-03-01		7.77
1979-02-06		7.64	1979-01-12		7.25
1978-12-05		6.58	1978-11-03		6.95
1978-10-10		7.46	1978-09-25		7.74
1978-09-08		8.07	1978-08-02		9.10
1978-06-30		6.89	1978-06-08		6.97
1978-05-19		7.88	1978-04-26		7.30
1978-04-03		7.68	1978-03-06		8.22
1978-02-01		7.02	1977-12-27		6.23
1977-12-07		6.36	1977-11-01		6.56
1977-09-20		7.82	1977-08-31		7.97
1977-08-30		6.82	1977-06-30		5.14
1977-06-01		5.23	1977-05-10		5.55
1977-05-09		5.58	1977-03-29		6.28
1977-03-02		6.29	1977-02-10		6.87
1977-01-04		6.74	1976-11-30		6.61
1976-11-04		6.84	1976-11-02		6.81
1976-10-06		7.46	1976-10-05		7.50
1976-09-07		7.31	1976-07-30		7.24
1976-07-28		7.23	1976-06-30		7.98
1976-06-21		7.73	1976-05-12		6.16
1976-05-07		5.79	1976-04-07		6.22
1976-02-05		6.99	1975-12-12		7.64
1975-09-30		12.97	1975-09-16		13.11
1975-07-30		11.84	1975-05-27		9.11
1975-05-14		9.38	1975-05-13		9.66
1975-03-09		10.37	1975-02-25		10.76
1975-01-02		10.73	1974-12-10		11.26
1974-10-28		12.17	1974-10-28	4.83	
1974-09-05	3.23		1974-07-10	2.70	
1974-05-29		9.58	1974-05-22		9.19
1974-05-22	7.81		1974-04-01		10.56
1974-03-05	7.40		1974-03-05		9.60
1974-01-03		10.70	1974-01-03	6.30	
1973-12-11		10.60	1973-11-06		10.56

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1973-11-06	6.44		1973-09-26		11.90
1973-09-05		11.30	1973-09-05	5.70	
1973-07-10		9.92	1973-07-10	7.08	
1973-05-15		11.59	1973-05-15	5.41	
1973-03-01	5.13		1973-03-01		11.87
1973-01-09	5.43		1973-01-09		11.57
1972-11-07		10.42	1972-11-07	6.58	
1972-09-06	5.40		1972-09-06		11.60
1972-07-05	5.94		1972-07-05		11.06
1972-05-10		10.38	1972-05-10	6.62	
1972-03-01		11.70	1972-03-01	5.30	
1972-01-04		12.23	1972-01-04	4.77	
1971-11-03	4.10		1971-11-03		12.90
1971-09-01		12.55	1971-09-01	4.45	
1971-07-01		10.00	1971-07-01	7.00	
1971-05-18		10.73	1971-05-18	6.27	
1971-03-08	5.27		1971-03-08		11.73
1971-01-11		10.28	1971-01-11	6.72	
1970-11-16		10.44	1970-11-16	6.56	
1970-09-14		11.08	1970-07-08	5.27	
1970-07-08		11.73	1970-05-12	4.97	
1970-05-12		12.03	1970-03-10	2.55	
1970-01-06	2.40		1969-11-03	3.73	
1969-09-03	2.97		1969-07-08		12.17
1969-07-08	4.83		1969-05-07		11.61
1969-05-07	5.39		1969-03-04	5.63	
1969-03-04		11.37	1969-01-06	5.18	
1969-01-06		11.82	1968-11-05		12.37
1968-11-05	4.63		1968-10-01	5.00	

**D29
West
1/2 - 1 Mile
Lower**

FL WELLS FLSA50000040768

Fluwid:	AAE8913	Well type:	43
Status:	ACTIVE	Casing mat:	Galvanized
Longitude:	-82.68956		
Latitude:	28.25683		
Well depth:	0		
Length:	0		
Diameter:	2	Permit num:	Not Reported
Sanit seal:	No	Name:	WILLIE BROOKS
First name:	Not Reported	Last name:	Not Reported
Phone:	Not Reported	Phone ext:	Not Reported
Lg pws:	0		
Datum:	WS1984		
Hae:	.44		
Gps date:	03/06/01	Loc method:	DGPS
Project id:	SUPER	Insp fname:	Not Reported
Insp lname:	Not Reported	Insp chd:	Not Reported
Req numb:	Not Reported	Property i:	Not Reported
County:	Pasco	Address:	6820 NARRA ST.
Number :	Not Reported	Predir:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Prefix:	Not Reported	Street:	6820 NARRA ST.
Suffix:	Not Reported	Postdir:	Not Reported
Zipcode:	34653	City:	New Port Richey
Loc id:	306954		
Gps id:	306954		
Wsrp id:	Not Reported	Action:	Not Reported
Port stat:	POTABLE	Res type:	Not Reported
Other id:	Not Reported	Software:	Not Reported
Streetside:	Not Reported	Agency:	Not Reported
Parcel id:	Not Reported		
Pws design:	0		
Pws verify:	0		
Site id:	FLSA50000040768		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: FL Radon

Radon Test Results

Zip	Total Buildings	% of sites > 4 pCi/L	Data Source
34655	59	1.7	Certified Residential Database
34655	17	5.9	Mandatory Non-Residential Database

Federal EPA Radon Zone for PASCO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for PASCO COUNTY, FL

Number of sites tested: 81

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Environmental Protection

Telephone: 850-245-8238

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

DEP GWIS - Generalized Water Information System Well Data

Source: Department of Environmental Protection

Telephone: 850-245-8507

Data collected for the Watershed Monitoring Section of the Department of Environmental Protection.

DOH and DEP Historic Study of Private Wells

Source: Department of Environmental Protection

Telephone: 850-559-0901

Historic database for private supply wells.

Well Construction Permitting Database

Source: Northwest Florida Water Management District

Telephone: 850-539-5999

Consumptive Use Permit Well Database

Source: St. Johns River Water Management District

Telephone: 386-329-4841

Permitted Well Location Database

Source: South Florida Water Management District

Telephone: 561-682-6877

Super Act Program Well Data

This table consists of data relating to all privately and publicly owned potable wells investigated as part of the SUPER Act program. The Florida Department of Health's SUPER Act Program (per Chapter 376.3071(4)(g), Florida Statutes), was given authority to provide field and laboratory services, toxicological risk assessments, investigations of drinking water contamination complaints and education of the public

Source: Department of Health

Telephone: 850-245-4250

Water Well Location Information

Source: Suwannee River Water Management District

Telephone: 386-796-7211

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Water Well Permit Database

Source: Southwest Water Management District
Telephone: 352-796-7211

OTHER STATE DATABASE INFORMATION

Florida Sinkholes

Source: Department of Environmental Protection, Geological Survey
The sinkhole data was gathered by the Florida Sinkhole Research Institute, University of Florida.

Oil and Gas Permit Database

Source: Department of Environmental Protection
Telephone: 850-245-3194
Locations of all permitted wells in the state of Florida.

RADON

State Database: FL Radon

Source: Department of Health
Telephone: 850-245-4288
Zip Code Based Radon Data

Area Radon Information

Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Appendix E

E-1: Aerial Photographs

E-2: Certified Sanborn® Map Report

E-3: The EDR-City Directory Abstract



Little Road/Massachusetts Avenue

Little Road/Massachusetts Avenue

New Port Richey, FL 34655

Inquiry Number: 3008116.5

March 10, 2011

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

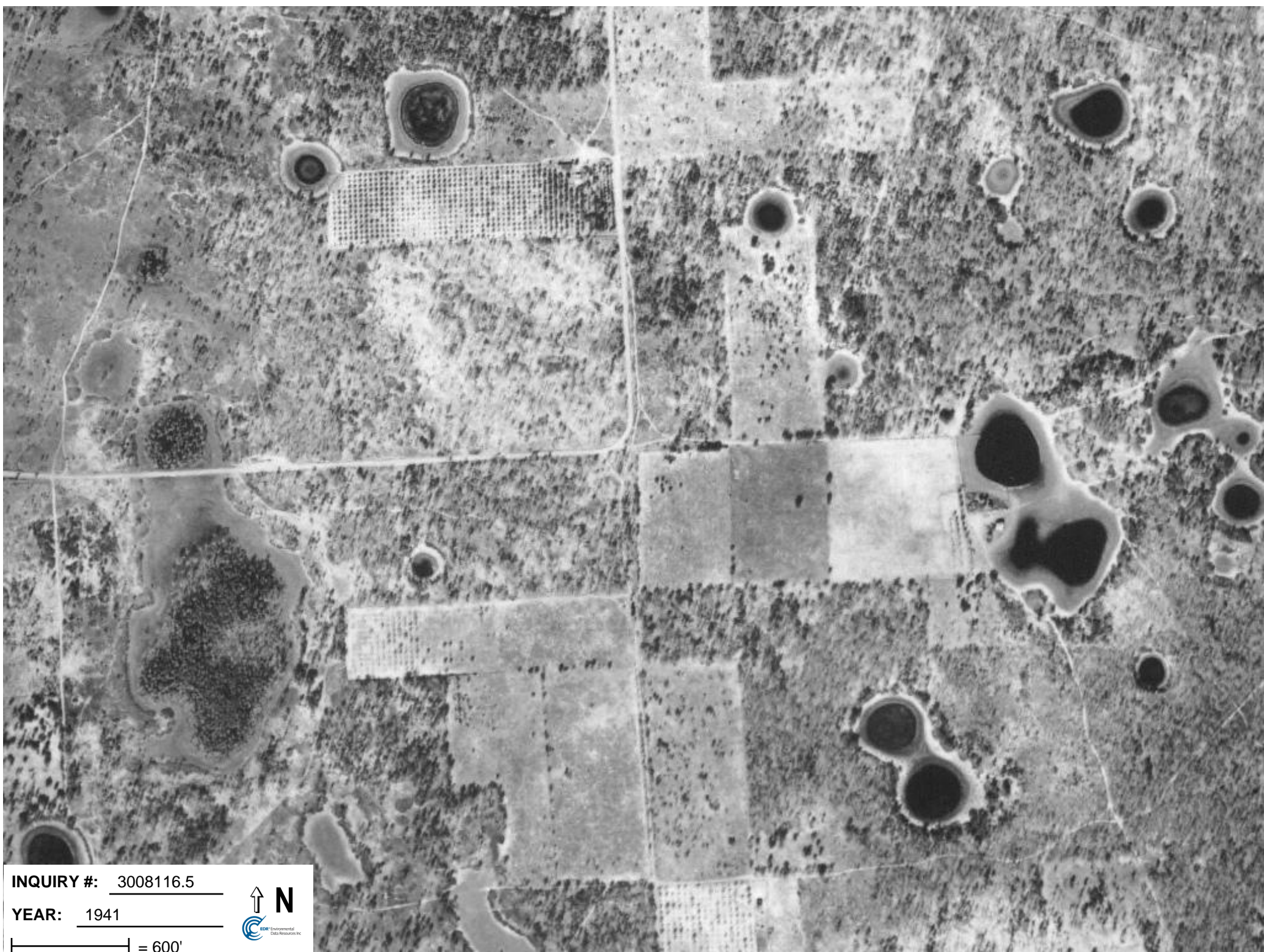
Aerial Photography March 10, 2011

Target Property:

Little Road/Massachusetts Avenue

New Port Richey, FL 34655

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1941	Aerial Photograph. Scale: 1"=600'	Flight Year: 1941	ASCS
1957	Aerial Photograph. Scale: 1"=600'	Flight Year: 1957	ASCS
1967	Aerial Photograph. Scale: 1"=600'	Flight Year: 1967 Photo Not Available - Image missing from collection	FL DOT
1977	Aerial Photograph. Scale: 1"=600'	Flight Year: 1977	FL DOT
1985	Aerial Photograph. Scale: 1"=600'	Flight Year: 1985	FL DOT
1998	Aerial Photograph. Scale: 1"=600'	Flight Year: 1998	FL DOT
2005	Aerial Photograph. Scale: 1"=604'	Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=604'	Flight Year: 2006	EDR

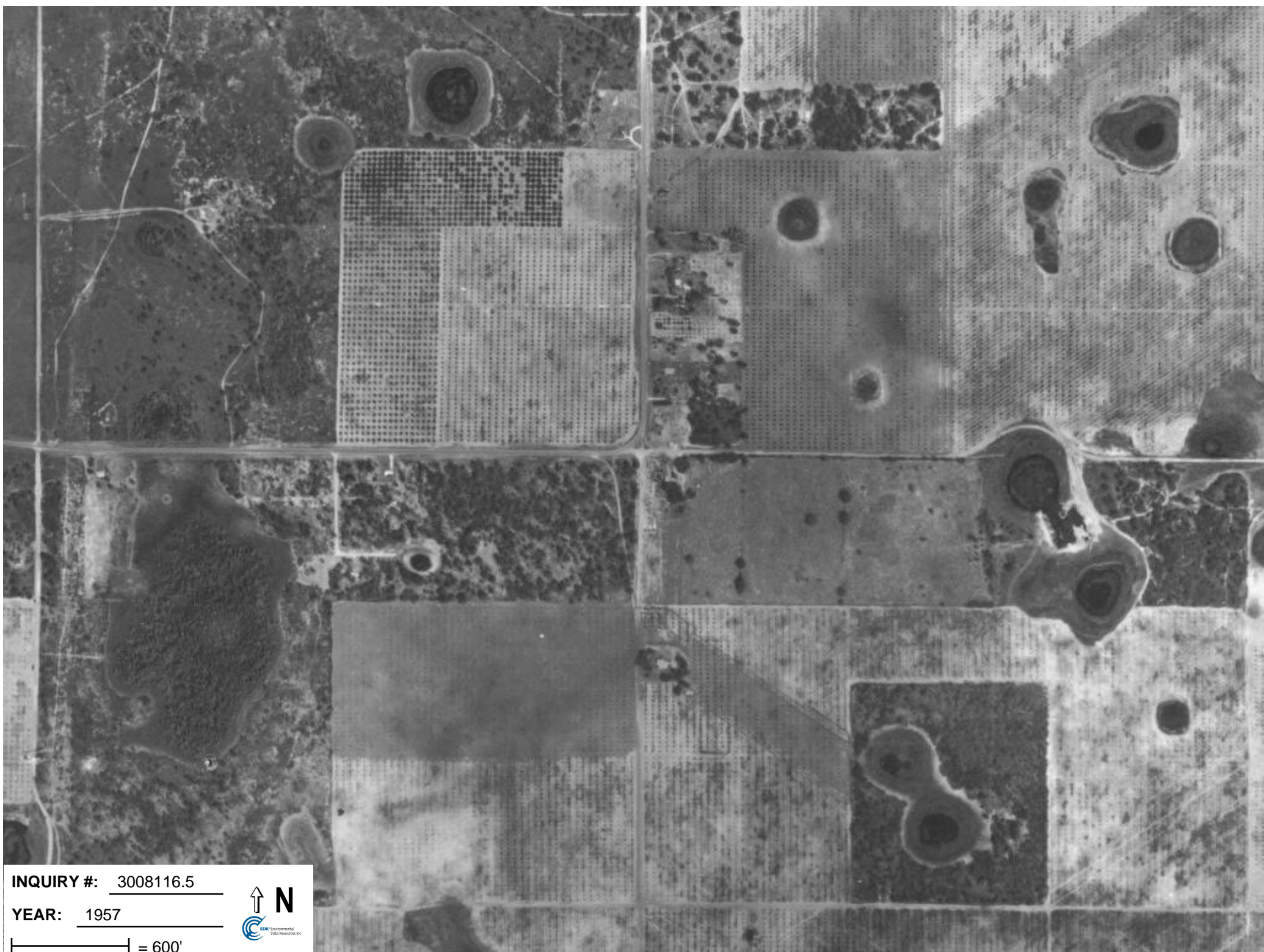


INQUIRY #: 3008116.5

YEAR: 1941

|—————| = 600'





INQUIRY #: 3008116.5

YEAR: 1957

|—————| = 600'



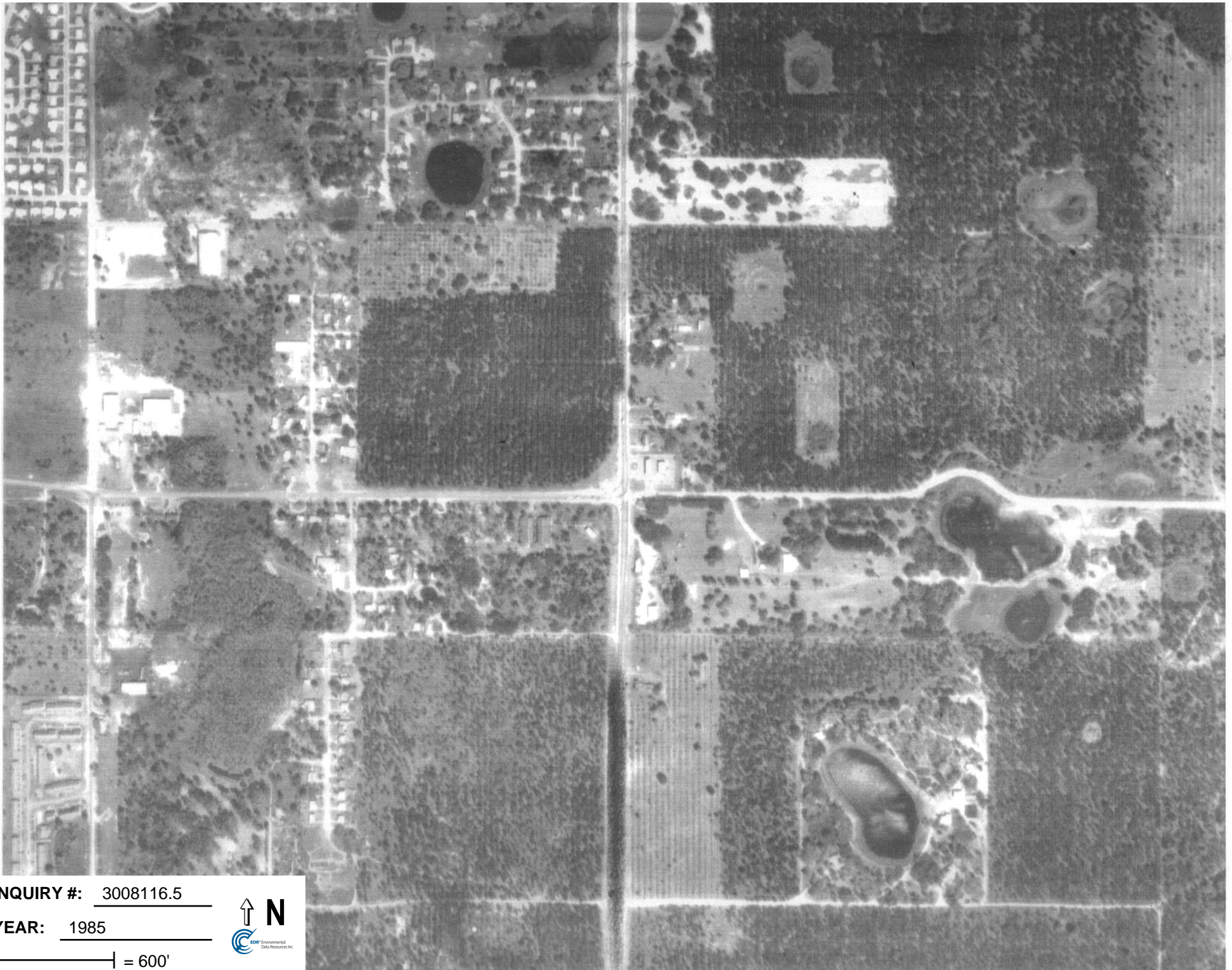


INQUIRY #: 3008116.5

YEAR: 1977

| = 600'





INQUIRY #: 3008116.5

YEAR: 1985

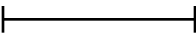
| = 600'





INQUIRY #: 3008116.5

YEAR: 1998

 = 600'





INQUIRY #: 3008116.5

YEAR: 2005

| = 604'





INQUIRY #: 3008116.5

YEAR: 2006

| = 604'





Little Road/Massachusetts Avenue

Little Road/Massachusetts Avenue

New Port Richey, FL 34655

Inquiry Number: 3008116.3

March 08, 2011

Certified Sanborn® Map Report

Certified Sanborn® Map Report

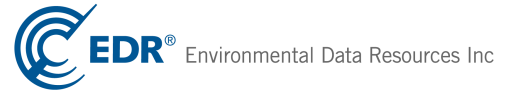
3/08/11

Site Name:

Little Road/Massachusetts
Little Road/Massachusetts
New Port Richey, FL 34655

Client Name:

Universal Engineering Sciences
9802 Palm River Road
Tampa, FL 33619



EDR Inquiry # 3008116.3

Contact: Kurt Hardy

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Universal Engineering Sciences were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Little Road/Massachusetts Avenue
Address: Little Road/Massachusetts Avenue
City, State, Zip: New Port Richey, FL 34655
Cross Street:
P.O. # 0830.1100134.0000
Project: 0830.1100134.0000
Certification # F838-4E9B-A26D



Sanborn® Library search results
Certification # F838-4E9B-A26D

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Little Road/Massachusetts Avenue

Little Road/Massachusetts Avenue
New Port Richey, FL 34655

Inquiry Number: 3008116.4
March 10, 2011

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1997	Polk's City Directory	X	X	X	-
1982	Polk's City Directory	X	-	X	-
1978	Polk's City Directory	X	-	X	-
1973	Polk's City Directory	X	-	X	-
1965	Polk's City Directory	X	-	X	-
1959	Polk's City Directory	X	-	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
8431 Corporate Way	Client Entered	
8506 DeCubellis Road	Client Entered	
6926 Little Road	Client Entered	
6927 Little Road	Client Entered	X
7008 Little Road	Client Entered	X
7026 Little Road	Client Entered	X
New Port Richey	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Little Road/Massachusetts Avenue
New Port Richey, FL 34655

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1997		Polk's City Directory
1982		Polk's City Directory
1978		Polk's City Directory
1973		Polk's City Directory
1965		Polk's City Directory
1959		Polk's City Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Little Road

6927 Little Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1997	Split Second grocery	Polk's City Directory

7008 Little Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1997	Jallo Shell gas sta.	Polk's City Directory
	Little Mobil gas sta.	Polk's City Directory

7026 Little Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1997	Law Office	Polk's City Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

<u>Street Researched</u>	<u>Street Not Identified in Research Source</u>
Corporate Way	1982, 1978, 1973, 1965, 1959
DeCubellis Road	1997, 1982, 1978, 1973, 1965, 1959
Little Road	1978, 1973, 1965, 1959

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
6926 Little Road	1997, 1982
6927 Little Road	1982
7008 Little Road	1982
7026 Little Road	1982
8431 Corporate Way	1997
8506 DeCubellis Road	No Years Found

Appendix F
Qualifications



Biographical Data

KURT A. HARDY, P.E.

Senior Engineer

Expertise Environmental and Civil Engineering: Site Planning/Engineering, Site Remediation, Environmental Site Assessment/Due Diligence and Testing; Underground Storage Tanks

Academic Background Bachelor of Science, Civil Engineering, West Virginia University

Registrations Professional Engineer, Florida License No. 51387

**Certifications/
Training** OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER)
Site Worker
OSHA HAZWOPER Site Supervisor

Experience Mr. Hardy has over 19 years of experience in environmental engineering. Mr. Hardy has conducted and supervised a diverse variety of environmental projects. These have included: identification of the degree and extent of environmental contamination, design and construction of remedial systems, environmental emergency response, preparation of civil and environmental permit applications, preparation of Phase I and Phase II environmental site assessments, property condition assessments, facility compliance audits, underground storage tank removals, tank closure reports, site assessment reports, and other significant environmental assessment, remediation, and construction projects.

Project Experience ***ENVIRONMENTAL DUE DILIGENCE AND CONTAMINATION ASSESSMENTS***

- **Environmental Compliance Audits of Industrial Facilities, Florida and Michigan.** Senior Engineer responsible for performing Environmental Compliance Audits of industrial facilities in Florida and Michigan and preparing reports detailing issues of non-compliance and recommendations for corporate/facility hazardous waste management policy development.*
- **Environmental and Property Condition Due Diligence Transactions, Nationwide.** Senior Engineer responsible for directing and conducting numerous environmental and property condition due diligence transactions at nationwide locations. Many transactions involved packaged portfolio properties (typically hotels, shopping plazas, mobile home parks, and various retail establishments) requiring short turnaround times and various Lender protocols (i.e., ASTM, Standard and Poor's Plus, AT&T Capital, GE Capital, GMAC, Sears, Midland).*
- **Directing Due Diligence Contamination Assessment Activities, Delta Tank Farm, Tampa, Florida.** Senior Engineer responsible for directing due diligence contamination assessment activities for the Delta tank farm at a major southeast airport. The completed objective involved developing a baseline contamination level and cost of cleanup for a potential ownership transfer. The portion of the tank farm of interest included four 1,000,000-gallon Jet "A" Fuel ASTs (above ground storage tanks) which had documented releases of thousands of gallons of product over several years.*
- **Site Assessment and Cleanup, Entire City Block, Detroit, Michigan.** Project Engineer responsible for the assessment/cleanup of a city block formerly occupied by a bus garage, involved in a future housing project. An intensive grid overlay of the site was performed to provide "3-D" detail of the contamination areas for subsequent excavation/treatment. The project involved a fast paced cleanup at a cost of nearly \$2 million.*



Biographical Data

- **Due Diligence Environmental Testing, Pest Control Facility, Tampa, Florida.** Senior Engineer responsible for conducting due diligence environmental testing at Pest Control facility that had been in operation for greater than 50 years. Designed and implemented soil/groundwater testing plan which allowed both the buying and selling parties to evaluate their risks from a quick turnaround, economically feasible investigation that outlined the extent of chlorinated pesticide contamination in the soil and groundwater. Mr. Hardy presented findings to both parties along with estimated soil remedial costs based on test results and conclusions.*
- **Contamination Assessment, Dry Cleaner and Circuit Board Manufacturing Facilities, Florida, Georgia, North Carolina, Louisiana and Michigan.** Mr. Hardy was the Senior Engineer responsible for contamination assessment activities involving trichloroethylene, tetrachloroethylene, and vinyl chloride contamination at dry cleaner and circuit board manufacturing facilities in Florida, Georgia, North Carolina, Louisiana and Michigan. Activities included obtaining off-site access agreements, supervision of boring placement and drilling, soil classification, monitoring well installation/sampling, and subsequent technical report preparation. One former dry cleaner location in Florida required delineation using five vertical well zones and tidal influence studies to complete the contamination assessment activities.*
- **Petroleum Pre-Approval, Site Assessment and Remedial Action, Various Facilities, Florida and Georgia.** Mr. Hardy was the Senior Engineer responsible for overseeing petroleum pre-approval, site assessment and remedial action at numerous facilities in Florida and Georgia.*
- **Environmental Site Testing, Former Key West Power Plant, Key West, Florida.** Mr. Hardy was the Senior Engineer responsible for environmental testing at a former Key West Power Plant. The assessment included evaluation of soil and groundwater contamination, asbestos, lead based paint, and waste liquid characterization. Mr. Hardy prepared specifications for addressing identified concerns during demolition activities.*
- **Emergency Response Activities, Construction Storage Trailer, Miami, Florida.** Mr. Hardy was the Senior Engineer responsible for directing emergency response activities within a construction storage trailer, following client's personnel being overcome by noxious fumes. Responsibilities included directing and specifying pre-entrance testing, personnel protective equipment (PPE) selection and material handling procedures. Mr. Hardy provided in-field direction to material removal team involved in entering storage area, material segregation, and suspect material containerization.*
- **UST Removal and Replacement Specifications and Drawings, United States Postal Service, Various Locations, Michigan.** Mr. Hardy was the Project Engineer responsible for preparation of gasoline UST removal and replacement specifications and drawings associated with United States Postal Service locations.*

*Previous Employer

Universal Office Tampa, Florida

Years with Universal 0 (2011)

Years with Other Firms 19



Biographical Data

ZANE PIERSON

Project Geologist

Expertise Forensic Geotechnical Subsidence Investigations, Geophysical (GPR) Studies, Environmental Site Assessment & Remediation, Contamination Assessment & Remediation, Drilling Operations, Site Closures, Underground Storage Tank Monitoring and Contamination Source Removals

Academic Background Bachelor of Science, Geology, University of Tennessee, 2006

Experience Universal Engineering Sciences, Tampa, Florida (2 Year)

Forensic geotechnical exploration experience includes subsidence (sinkhole) investigations, report writing, grout recommendations, ground penetrating radar (GPR), boring locations, sample classification, GINT computerized boring logs, homeowner interviews, hand auger borings, drawing site maps, floor slab relative elevation surveys, structural damage identification, analysis and opinion, test pits, site photography, and hand cone penetrometer readings. Environmental experience includes phase I environmental site assessments and soil and groundwater sampling.

Shaw Environmental, Tampa, Florida (1 Year)

Environmental experience includes underground storage tank removal and installation, source removal of contaminated soil, groundwater sampling, soil sampling and classification, soil boring via standard penetration test, direct push, and hand auger, monitoring well installation via direct push and hollow stem auger drill rigs, installation of remediation wells for pilot tests (soil vapor extraction and air sparge wells), slug tests, land area use survey, well abandonment, collected influent and effluent samples from dewatering systems, emergency response, calculating groundwater flow and applying to a site map, top of casing survey for monitoring wells, site assessment reports including tank closure reports, monitoring well abandonment reports, overspill and vapor bucket closure reports, and line closure reports. Surveying experience includes environmental sites – FDEP petroleum cleanup sites, and wetland delineation surveys.

Survtech Solutions, Tampa, Florida (1 Year)

Surveying experience includes boundary surveys such as property line and sectional land retracement, design surveys such as ALTA/ACSM land title surveys, construction surveys ranging from residential subdivision and commercial layout to industrial construction layout and alignment, As-built surveys, vertical (level run) and horizontal control such as elevation certificates, mortgage and topographic surveys, mine surveys, volumetric and geodetic surveys, condo conversion projects on 1000+ unit apartment complexes, hazardous site surveys, and route surveys.

Training/Certifications 40 Hour OSHA Hazardous Waste and Operations Training - Current
NSPS/ACSM Certified Survey Technician Level 2 - Current
Various mine and hazardous site safety classes
American Red Cross First Aid and CPR/AED Certified
Nominated by professors for the 2006 U.S. Geological Survey/National Association of Geosciences Teachers Cooperative Summer Internship Program

APPENDIX F
Right-of-Way Cost
(Appendix is Double-Sided)



**PASCO COUNTY
RIGHT OF WAY COST ESTIMATE**

FM#: N/A	Alternate: 1	District: 1	1
County: Pasco	Segment:	Date: 28-Jul-11	
County Road: Little Road at Massachusetts Avenue & Decubellis Road		C.E. Sequence: N/A	
Project Des.: Intersection Project of Little Road & Massachusetts Avenue/Decubellis Road			

Parcels	Gross	Net	Estimated Relocates:
Commercial	0	0	Business
Residential	0	0	Residential
Unimproved	1	1	Signs
			Special
Total Parcels	1	1	Total Relocates

R/W SUPPORT COSTS (PHASE 41)			Amount
1. Direct Labor Cost	(Parcels 1 x 13,000 = Rate)		13,000
2. Indirect Overhead	(Parcels 0 x 0 = Rate)		0
3.			TOTAL PHASE 41
			\$13,000

R/W OPS (PHASE 4B)			Amount
4. Appraisal Fees Through Trial	1 Parcels x 15,000 =		15,000
5. Business Damage CPA Fees Through Trial	0 Claims x 19,000 =		0
6. Court Reporter & Process Servers	100% x 1 = 1 Parcels x 500 =		500
7. Expert Witness	100% x 1 = 1 Parcels x 15,000 =		15,000
8. Mediators	100% x 1 = 1 Parcels x 2,400 =		2,400
9. Demolition, Asb. Abate., Survey, etc.	0 Imprvmet x 15,000 =		0
10. Miscellaneous Contracts	1 Per Project x 15,000 =		15,000
11. Appraisal Fee Review	0 Parcels x 1,000 =		0
12.			TOTAL PHASE 4B
			\$47,900

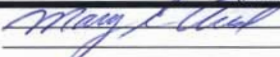
R/W LAND COSTS (PHASE 43)			Amount	Subtotal
13. Land, Improvements & Severance Damages and Cost to Cure Amount	91,752 x 125% * Design plan stage =		114,700	
14. Water Retention & Mit.	x 130% (0 Parcels w/o R/W Acq)		0	
15. SUBTOTAL	(Lines 13 & 14)			114,700
16. Admin. Settlements (Factor	0% x 60% of Line 15)		0	
17. Litigation Awards (Factor	100% x 60% of Line 15)		68,800	
18. Business Damages (Claims	0 x \$0)		0	
19. Bus. Damages Incr (Factor	25% x \$ -)		0	
20. Owner Appr. Fees (Parcels	1 x \$20,000)		20,000	
21. Owner CPA Fees (Claims	0 x \$10,000)		0	
22. Defend. Atty Fees (Sum of Lines 16, 17 & 19)	68,800 x 33%)		22,700	
23. Owner Expert Wtn (Comm.+Unimp.)	0 + 1) x 18,000		18,000	
24. Other Condemn. Costs	2 x \$10,000		20,000	
25. SUBTOTAL	(Lines 16 thru 24)			149,500
26.			TOTAL PHASE 43	\$264,200

* Design contingency for design plan stage:
(1) PD&E plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans -115% (5) 268 Date -110%

R/W ACQUISITION CONSULTANT (PHASE 42)			Amount
27. Acquisition Consultant-50% of parcels	\$20,000 x 0		0
			TOTAL PHASE 42
			\$0

RELOCATION COSTS (PHASE 45)			Number	Amount
Replacement Housing				
28. Owner	\$20,000 x	0	=	0
29. Tenant	\$10,000 x	0	=	0
Move Costs				
30. Residential	\$1,500 x	0	=	0
31. Business/Farm	\$20,000 x	0	=	0
32. Personal Property	\$2,000 x	0	=	0
33. (Lines 28 thru 32)				
				TOTAL PHASE 45
				\$0

34. Relocation Services Cost	\$0 (Not in Phase Total)			
35.				
36.				
37.				
			(All Phases) TOTAL ESTIMATE	\$325,100

Real Estate: Mary E. Arend	Signed: 	Date: 07/28/11
Bus. Dam. :	Signed: _____	Date: _____
Relocation:	Signed: _____	Date: _____
Overall Review:	Signed: _____	Date: _____

Cost Estimate # Alt. # 1 Dated: 7/28/2011 In the Amount of \$ 325,100 Data Input Completion Date: 7/28/2011

REMARKS:

The following indicates the estimator's confidence in the above estimate:	Future Value Factors @	10%
Type A - indicates the most confidence	Year One	1.1000
x Type B - indicates above average confidence	Year Two	1.2100
Type C - indicates below average confidence	Year Three	1.3310
Type D - indicates the least or no confidence	Year Four	1.4641
	Year Five	1.6105

The following indicates the Department's purpose for this estimate:
Work Program Update: _____ Gaming 1: _____ Special Purpose: _____ Docs to RW: _____
Comments: _____

**PASCO COUNTY
RIGHT OF WAY COST ESTIMATE**

FM#: N/A	Alternate: 2	District: 1	1
County: Pasco	Segment:	Date: 28-Jul-11	
County Road: Little Road at Massachusetts Avenue & Decubellis Road		C.E. Sequence	N/A
Project Des.: Intersection Project of Little Road & Massachusetts Avenue/Decubellis Road			

Parcels	Gross	Net	Estimated Relocates:	
Commercial	0	0	Business	0
Residential	0	0	Residential	0
Unimproved	1	1	Signs	0
			Special	0
Total Parcels	1	1	Total Relocates	0

R/W SUPPORT COSTS (PHASE 41)				Amount
1. Direct Labor Cost	(Parcels 1 x 13,000 = Rate)			13,000
2. Indirect Overhead	(Parcels 0 x 0 = Rate)			0
3.				TOTAL PHASE 41
				\$13,000

R/W OPS (PHASE 4B)				Amount
4. Appraisal Fees Through Trial		1 Parcels x 15,000 =		15,000
5. Business Damage CPA Fees Through Trial		0 Claims x 19,000 =		0
6. Court Reporter & Process Servers	100% x 1 =	1 Parcels x 500 =		500
7. Expert Witness	100% x 1 =	1 Parcels x 15,000 =		15,000
8. Mediators	100% x 1 =	1 Parcels x 2,400 =		2,400
9. Demolition, Asb. Abate., Survey, etc.		0 Imprvmet x 15,000 =		0
10. Miscellaneous Contracts		1 Per Project x 15,000 =		15,000
11. Appraisal Fee Review		0 Parcels x 1,000 =		0
12.				TOTAL PHASE 4B
				\$47,900


R/W LAND COSTS (PHASE 43)				Amount	Subtotal
13. Land, Improvements & Severance Damages and Cost to Cure Amount	91,750 x 125% * Design plan stage =			114,700	
14. Water Retention & Mit.		130% (0 Parcels w/o R/W Acq)		0	
15. SUBTOTAL		(Lines 13 & 14)			114,700
16. Admin. Settlement (Factor 0% x 60% of Line 15)				0	
17. Litigation Awards (Factor 100% x 60% of Line 15)				68,800	
18. Business Damages (Claims 0 x \$0)				0	
19. Bus. Damages Incr (Factor 25% x \$ -)				0	
20. Owner Appr. Fees (Parcels 1 x \$20,000)				20,000	
21. Owner CPA Fees (Claims 0 x \$10,000)				0	
22. Defend. Atty Fees (Sum of Lines 16, 17 & 19) 68,800 x 33%				22,700	
23. Owner Expert Witn (Comm.+Unimp.) 0 + 1 x 18,000				18,000	
24. Other Condemn. Costs 2 x \$10,000				20,000	
25. SUBTOTAL		(Lines 16 thru 24)			149,500
26.					TOTAL PHASE 43
					\$264,200

* Design contingency for design plan stage:
(1) PD&E plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans - 115% (5) 268 Date - 110%

R/W ACQUISITION CONSULTANT (PHASE 42)				Amount
27. Acquisition Consultant-50% of parcels	\$20,000 x 0			0
				TOTAL PHASE 42
				\$0

RELOCATION COSTS (PHASE 45)				Number	Amount
Replacement Housing					
28. Owner	\$20,000 x 0 =			0	
29. Tenant	\$10,000 x 0 =			0	
Move Costs					
30. Residential	\$1,500 x 0 =			0	
31. Business/Farm	\$20,000 x 0 =			0	
32. Personal Property	\$2,000 x 0 =			0	
33. (Lines 28 thru 32)					TOTAL PHASE 45
					\$0
34. Relocation Services Cost	\$0 (Not in Phase Total)				

35.					
36.					
37.		(All Phases)	TOTAL ESTIMATE		\$325,100

Real Estate: Mary E. Arend	Signed: 	Date: 07/28/11
Bus. Dam.:	Signed: _____	Date: _____
Relocation:	Signed: _____	Date: _____
Overall Review:	Signed: _____	Date: _____

Cost Estimate # A/E # 2 Dated: 7/28/2011 In the Amount of \$ 325,100 Data Input Completion Date: 7/28/2011

REMARKS:

The following indicates the estimator's confidence in the above estimate:	Future Value Factors @	10%
_____ Type A - indicates the most confidence	Year One	1.1000
x _____ Type B - indicates above average confidence	Year Two	1.2100
_____ Type C - indicates below average confidence	Year Three	1.3310
_____ Type D - indicates the least or no confidence	Year Four	1.4641
	Year Five	1.6105

The following indicates the Department's purpose for this estimate:
Work Program Update: _____ Gaming 1: _____ Special Purpose: _____ Docs to RW: _____
Comments: _____

Page 2 of 2
 Alternate: 2
 Segment: Intersection Project
 Date: July 28, 2011

PASCO COUNTY RIGHT OF WAY COST ESTIMATE
 COST ESTIMATE DETAIL SHEET

S.R.#: N/A
 District: 1
 County: Pasco

Map Page	Par. No.	Owners Name	USE			Zoning Code	Parent Tract Size (Sq.Ft.)	Take Size Sq.Ft.	Price Sq.Ft.	Land Cost	Building	Paving	Landscpg	Fence	Signs/ Other	Cost to Cure Damages	Improvement Costs	Total Land Improv & Dam.	Bus. Damages			ASB																			
			C	R	V														Amount	No.	DEM		ABT																		
NW	1	Harvey, Barb, Nancy			x	C-2	1,611,720	4,264	18.00	76,752							15,000	91,750																							
Total Page 1																											4,264		\$76,752							\$15,000	\$91,750				

**PASCO COUNTY
RIGHT OF WAY COST ESTIMATE**

FM#: N/A	Alternate: 3	District: 1	1
County: Pasco	Segment:	Date: July 28, 2011	
County Road: Little Road at Massachusetts Avenue & Decubellis Road		C.E. Sequence: N/A	
Project Des.: Intersection Project of Little Road & Massachusetts Avenue/Decubellis Road			

Parcels	Gross	Net	Estimated Relocatees:
Commercial		0	Business
Residential	1	1	Residential
Unimproved	3	3	Signs
			Special
Total Parcels	4	4	Total Relocatees

R/W SUPPORT COSTS (PHASE 41)			Amount
1. Direct Labor Cost	(Parcels 4 x 13,000 = Rate)		52,000
2. Indirect Overhead	(Parcels 0 x 0 = Rate)		0
3.			
TOTAL PHASE 41			\$52,000

R/W OPS (PHASE 4B)			Amount
4. Appraisal Fees Through Trial	3 Parcels x 15,000 =		45,000
5. Business Damage CPA Fees Through Trial	0 Claims x 19,000 =		0
6. Court Reporter & Process Servers	2 Parcels x 500 =		1,000
7. Expert Witness	3 Parcels x 15,000 =		45,000
8. Mediators	3 Parcels x 2,400 =		7,200
9. Demolition, Asb. Abate., Survey, etc.	0 Imprvmet x 15,000 =		0
10. Miscellaneous Contracts	3 Per Project x 15,000 =		45,000
11. Appraisal Fee Review	0 Parcels x 1,000 =		0
12.			
TOTAL PHASE 4B			\$143,200

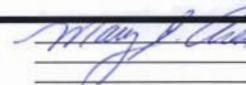
R/W LAND COSTS (PHASE 43)			Amount	Subtotal
13. Land, Improvements & Severance Damages and Cost to Cure Amount	214,477 x 125% * Design plan stage =		268,100	
14. Water Retention & Mit.	x 130% (0 Parcels w/o R/W Acq)		0	
15. SUBTOTAL	(Lines 13 & 14)			268,100
16. Admin. Settlements (Factor	25% x 30% of Line 15) =		20,100	
17. Litigation Awards (Factor	75% x 60% of Line 15) =		120,600	
18. Business Damages (Claims	25% x \$0) =		0	
19. Bus. Damages Incr (Factor	25% x \$ -) =		0	
20. Owner Appr. Fees (Parcels	4 x \$20,000) =		80,000	
21. Owner CPA Fees (Claims	0 x \$10,000) =		0	
22. Defend.Atty Fees (Sum of Lines 16, 17 & 19)	140,700 x 33%) =		46,400	
23. Owner Expert Witn (Comm.+Unimp.)	0 + 4 x 18,000 =		72,000	
24. Other Condemn. Costs	3 x \$10,000 =		30,000	
25. SUBTOTAL	(Lines 16 thru 24) =			369,100
26.				
TOTAL PHASE 43				\$637,200

* Design contingency for design plan stage:
(1) PD&E plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans -115% (5) 268 Date -110%

R/W ACQUISITION CONSULTANT (PHASE 42)			
27. Acquisition Consultant-50% of parcels	\$20,000 x 0		0
TOTAL PHASE 42			\$0

RELOCATION COSTS (PHASE 45)			
Replacement Housing			
28. Owner	\$20,000 x 0 =		0
29. Tenant	\$10,000 x 0 =		0
Move Costs			
30. Residential	\$1,500 x 0 =		0
31. Business/Farm	\$20,000 x 0 =		0
32. Personal Property	\$2,000 x 0 =		0
33. (Lines 28 thru 32)			
TOTAL PHASE 45			\$0
34. Relocation Services Cost	\$0 (Not in Phase Total)		

35.			
36.			
37.	(All Phases)	TOTAL ESTIMATE	\$832,400

Real Estate: Mary E. Arend	Signed: 	Date: 07/28/11
Bus. Dam.:	Signed: _____	Date: _____
Relocation:	Signed: _____	Date: _____
Overall Review:	Signed: _____	Date: _____

Cost Estimate # Alt. # 3 Dated: 7/28/2011 In the Amount of \$ 832,400 Data Input Completion Date: 7/28/2011

REMARKS:

The following indicates the estimator's confidence in the above estimate:	Future Value Factors @	10%
Type A - indicates the most confidence	Year One	1.1000
x Type B - indicates above average confidence	Year Two	1.2100
Type C - indicates below average confidence	Year Three	1.3310
Type D - indicates the least or no confidence	Year Four	1.4641
	Year Five	1.6105

The following indicates the Department's purpose for this estimate:
Work Program Update: _____ Gaming 1: _____ Special Purpose: _____ Docs to RW: _____
Comments: _____

APPENDIX G

Cost Estimation

(Appendix is Double-Sided)





LITTLE ROAD AT MASSACHUSETTS AVE DECUBELLIS ROAD COST ESTIMATE

Prepared By: Johnson Engineering

30-Jul-11

Alternative 1:



Estimated Cost *	\$ 691,602.85
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Alternative 2:



Estimated Cost *	\$ 788,316.18
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Alternative3:



Estimated Cost *	\$ 1,659,651.24
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* Estimated cost include cost associated with the design, permitting, right-of-way land cost, street lighting, signal modifications, construction, and construction engineering inspection. Land costs do not include eminent domain proceedings such as appraisals, legal fees, real estate transaction fees, etc.



**LITTLE RD AT MASSACHUSETTS AVE
AND DECUBELLIS ROAD COST ESTIMATION**

ALTERNATIVE 1 PRELIMINARY COST ESTIMATE



DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	PAY ITEM TOTAL
DESIGN ITEMS				
ROADWAY DESIGN/PERMITTING	LS	1	\$77,746.82	\$77,746.82
DESIGN SUBTOTAL				\$77,746.82
RIGHT-OF-WAY				
RIGHT-OF-WAY COST	LS	1	\$91,752.00	\$91,752.00
RIGHT-OF-WAY SUBTOTAL				\$91,752.00
ROADWAY ITEMS				
MOBILIZATION (10%)	LS	1	\$8,271.57	\$8,271.57
MAINTENANCE OF TRAFFIC	LS	1	\$15,000.00	\$15,000.00
SEDIMENT BARRIERS	LF	1,000	\$1.15	\$1,150.00
CLEARING & GRUBBING/ DEMOLITION	LS	1	\$20,000.00	\$20,000.00
EARTHWORK	LS	1	\$2,500.00	\$2,500.00
STABILIZATION TYPE B	SY	578	\$2.10	\$1,214.64
ROADWAY BASE	SY	482	\$10.50	\$5,061.00
STRUCTURAL COURSE (3")	TN	80	\$110.00	\$8,748.30
SURFACE COURSE (1")	TN	27	\$110.00	\$2,916.10
DRIVEWAY RESTORATION	LS	1	\$5,000.00	\$5,000.00
STORM SEWER PIPE	LF	80	\$50.00	\$4,000.00
MITERED END SECTIONS	EA	1	\$2,845.00	\$2,845.00
CURB INLETS	EA	2	\$3,625.00	\$7,250.00
CONCRETE CURB & GUTTER, TYPE F	LF	488	\$9.50	\$4,636.00
SIDEWALK CONCRETE, 4" THICK	SY	316	\$23.00	\$7,268.00
PERFORMANCE TURF (SOD)	SY	651	\$2.50	\$1,626.67
SIGNAGE	LS	1	\$5,000.00	\$5,000.00
PAVEMENT ARROWS	EA	10	\$75.00	\$750.00
PAVEMENT MESSAGES	EA	3	\$100.00	\$300.00
LANE STRIPING	LF	1,200	\$0.75	\$900.00
CROSS WALK STRIPING	LF	900	\$1.25	\$1,125.00
2-4 SKIP	LF	500	\$0.50	\$250.00
REFLECTIVE PAVEMENT MARKINGS	EA	35	\$5.00	\$175.00
ROADWAY SUBTOTAL				\$105,987.28
TRAFFIC SIGNAL & STREET LIGHTING				
TRAFFIC SIGNAL MODIFICATIONS	LS	1	\$200,000.00	\$200,000.00
STREET LIGHT POLE RELOCATION	EA	2	\$2,500.00	\$5,000.00
TRAFFIC SIGNAL & ST. LIGHTING SUBTOTAL				\$205,000.00
CONSTRUCTION SERVICES				
CONSTRUCTION ENGINEERING INSPECTION	LS	1	\$62,197.46	\$62,197.46
CONSTRUCTION ADMINISTRATION	LS	1	\$10,598.73	\$10,598.73
CONSTRUCTION SUBTOTAL				\$72,796.18
TOTAL				\$553,282.28
CONTINGENCY (25%)		1		\$138,320.57
GRAND TOTAL				\$691,602.85



LITTLE RD AT MASSACHUSETTS AVE
AND DECUBELLIS ROAD COST ESTIMATION

ALTERNATIVE 2 PRELIMINARY COST ESTIMATE



DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	PAY ITEM TOTAL
DESIGN ITEMS				
ROADWAY DESIGN/PERMITTING	LS	1	\$90,266.28	\$90,266.28
DESIGN SUBTOTAL				\$90,266.28
RIGHT-OF-WAY				
RIGHT-OF-WAY COST	LS	1	\$91,752.00	\$91,752.00
RIGHT-OF-WAY SUBTOTAL				\$91,752.00
ROADWAY ITEMS				
MOBILIZATION (10%)	LS	1	\$12,596.83	\$12,596.83
MAINTENANCE OF TRAFFIC	LS	1	\$15,000.00	\$15,000.00
SEDIMENT BARRIERS	LF	1,500	\$1.15	\$1,725.00
CLEARING & GRUBBING/ DEMOLITION	LS	1	\$30,000.00	\$30,000.00
EARTHWORK	LS	1	\$3,500.00	\$3,500.00
STABILIZATION TYPE B	SY	953	\$2.10	\$2,000.60
ROADWAY BASE	SY	794	\$10.50	\$8,335.83
STRUCTURAL COURSE (3")	TN	131	\$110.00	\$14,409.08
SURFACE COURSE (1")	TN	44	\$110.00	\$4,803.03
DRIVEWAY RESTORATION	LS	1	\$5,000.00	\$5,000.00
STORM SEWER PIPE	LF	100	\$50.00	\$5,000.00
MITERED END SECTIONS	EA	1	\$2,845.00	\$2,845.00
CURB INLETS	EA	3	\$3,625.00	\$10,875.00
CONCRETE CURB & GUTTER, TYPE F	LF	722	\$9.50	\$6,859.00
SIDEWALK CONCRETE, 4" THICK	SY	776	\$23.00	\$17,840.33
PERFORMANCE TURF (SOD)	SY	963	\$2.50	\$2,406.67
SIGNAGE	LS	1	\$6,500.00	\$6,500.00
PAVEMENT ARROWS	EA	11	\$75.00	\$825.00
PAVEMENT MESSAGES	EA	3	\$100.00	\$300.00
LANE STRIPING	LF	1,515	\$0.75	\$1,136.25
CROSS WALK STRIPING	LF	926	\$1.25	\$1,157.50
2-4 SKIP	LF	500	\$0.50	\$250.00
REFLECTIVE PAVEMENT MARKINGS	EA	40	\$5.00	\$200.00
ROADWAY SUBTOTAL				\$153,565.12
TRAFFIC SIGNAL & STREET LIGHTING				
TRAFFIC SIGNAL MODIFICATIONS	LS	1	\$200,000.00	\$200,000.00
STREET LIGHT POLE RELOCATION	EA	3	\$2,500.00	\$7,500.00
TRAFFIC SIGNAL & ST. LIGHTING SUBTOTAL				\$207,500.00
CONSTRUCTION SERVICES				
CONSTRUCTION ENGINEERING INSPECTION	LS	1	\$72,213.02	\$72,213.02
CONSTRUCTION ADMINISTRATION	LS	1	\$15,356.51	\$15,356.51
CONSTRUCTION SUBTOTAL				\$87,569.54
TOTAL				\$630,652.94
CONTINGENCY (25%)		1		\$157,663.24
GRAND TOTAL				\$788,316.18



ALTERNATIVE 3 PRELIMINARY COST ESTIMATE



DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	PAY ITEM TOTAL
DESIGN ITEMS				
ROADWAY DESIGN/PERMITTING	LS	1	\$182,861.93	\$182,861.93
DESIGN SUBTOTAL				\$182,861.93
RIGHT-OF-WAY				
RIGHT-OF-WAY COST	LS	1	\$214,477.00	\$214,477.00
RIGHT-OF-WAY SUBTOTAL				\$214,477.00
ROADWAY ITEMS				
MOBILIZATION (10%)	LS	1	\$46,495.25	\$46,495.25
MAINTENANCE OF TRAFFIC	LS	1	\$15,000.00	\$15,000.00
SEDIMENT BARRIERS	LF	1,500	\$1.15	\$1,725.00
CLEARING & GRUBBING/ DEMOLITION	LS	1	\$30,000.00	\$30,000.00
DETENTION POND	LS	1	\$200,000.00	\$200,000.00
EARTHWORK	LS	1	\$4,000.00	\$4,000.00
ASPHALT MILLING (1")	SY	5,865	\$1.15	\$6,744.75
STABILIZATION TYPE B	SY	2,595	\$2.10	\$5,450.20
ROADWAY BASE	SY	2,163	\$10.50	\$22,709.17
STRUCTURAL COURSE (3")	TN	357	\$110.00	\$39,254.42
SURFACE COURSE (1")	TN	442	\$110.00	\$48,568.06
DRIVEWAY RESTORATION	LS	1	\$5,000.00	\$5,000.00
STORM SEWER PIPE	LF	300	\$50.00	\$15,000.00
MITERED END SECTIONS	EA	1	\$2,845.00	\$2,845.00
CURB INLETS	EA	6	\$3,625.00	\$21,750.00
CONCRETE CURB & GUTTER, TYPE F	LF	1,365	\$9.50	\$12,967.50
SIDEWALK CONCRETE, 4" THICK	SY	903	\$23.00	\$20,769.00
TRAFFIC SEPERATOR CONCRETE, 6" THICK	SY	290	\$32.11	\$9,311.90
PERFORMANCE TURF (SOD)	SY	1,820	\$2.50	\$4,550.00
SIGNAGE	LS	1	\$6,500.00	\$6,500.00
PAVEMENT ARROWS	EA	19	\$75.00	\$1,425.00
STOP BAR	LF	185	\$3.35	\$619.75
LANE STRIPING	LF	3,995	\$0.75	\$2,996.25
GORE AREA STRIPING	LF	350	\$2.75	\$962.50
CROSS WALK STRIPING	LF	900	\$1.25	\$1,125.00
2-4 SKIP	LF	558	\$0.50	\$279.00
REFLECTIVE PAVEMENT MARKINGS	EA	80	\$5.00	\$400.00
ROADWAY SUBTOTAL				\$526,447.74
TRAFFIC SIGNAL & STREET LIGHTING				
TRAFFIC SIGNAL MODIFICATIONS	LS	1	\$200,000.00	\$200,000.00
STREET LIGHT POLE RELOCATION	EA	2	\$2,500.00	\$5,000.00
TRAFFIC SIGNAL & ST. LIGHTING SUBTOTAL				\$205,000.00
CONSTRUCTION SERVICES				
CONSTRUCTION ENGINEERING INSPECTION	LS	1	\$146,289.55	\$146,289.55
CONSTRUCTION ADMINISTRATION	LS	1	\$52,644.77	\$52,644.77
CONSTRUCTION SUBTOTAL				\$198,934.32
TOTAL				\$1,327,720.99
CONTINGENCY (25%)		1		\$331,930.25
GRAND TOTAL				\$1,659,651.24

APPENDIX H

Public Meeting Materials

(Appendix is Double-Sided)





PUBLIC INFORMATION INTERSECTION STUDY WORKSHOP

**Little Road
at
Massachusetts Avenue and DeCubellis Road**

PASCO COUNTY, FLORIDA
Project Number C-10032.00

Wednesday, June 22, 2011
5:00 P.M. to 7:00 P.M.

**West Pasco County Government Center
7530 Little Road
New Port Richey, FL 34654**

PUBLIC WORKSHOP

Little Road at Massachusetts Avenue and DeCubellis Road Intersection Study

Welcome to the Public Workshop for improvements to the intersection of Little Road at Massachusetts Avenue and DeCubellis Road. During this workshop, we are seeking to inform the public, encourage discussion and comments, and solicit your input concerning this project. Your comments will be incorporated into the Intersection Study and Report, along with information previously received during the intersection study, and will become part of the project records.

This project evaluates alternative alignments to enable this intersection to meet the anticipated future traffic needs along this corridor.

Three different build alignments have been analyzed based on long-range planning, safety, cost, environmental, property impacts and other relevant factors. Differences exist in the potential conflicts with existing traffic patterns, and the costs of these. Another concept being considered is the “No-Build” alternative.

A common element of the build alternatives is that southbound and westbound right turn lanes are proposed. The southbound right turn lane will require additional right-of-way in each of the alternatives. Dual eastbound left turn lanes are also proposed along Massachusetts Avenue but their alignments are different as described below.

The differences between the three build alternatives pertain primarily to the eastbound-westbound alignments through the intersection and the number of lanes. In Alternative 1, dual eastbound left turn lanes are proposed along with a combined through and right turn lane within the existing pavement width.

In Alternative 2, dual eastbound left turn lanes are proposed, as in Alternative 1, but with a dedicated eastbound through lane and the addition of an eastbound right turn lane requiring additional right-of-way.

Alternative 3 provides 2 eastbound left turn lanes, 1 eastbound dedicated through lane and 1 eastbound combined through/right turn lane. The additional lanes in Alternative 3 will require a realignment and widening of the intersection to the north as well as require additional right-of-way.

In addition to the three build alternatives, the No Build Alternative is also being considered. This alternative would not provide additional lanes and would not require any right-of-way acquisition.

Acquisition of needed right-of-way cannot take place until design, permitting, and right-of-way maps are completed. At that time, affected property owners will be contacted by a Pasco County Real Estate Agent to discuss acquisition and begin the appraisal process. In the event that a negotiated settlement cannot be reached during right-of-way acquisition, Pasco County may file an eminent domain action to acquire the necessary property. A court determines both the validity of the County’s need and the amount of compensation.

Alignment concept displays will be presented for public viewing during the workshop. County and consultant staff will be available to discuss and answer questions. Attached, please find a comment sheet upon which we would welcome any comments you may have regarding this project. Written comments received by the County within the ten (10) calendar days following the workshop will be included as part of the workshop material. Thank you for attending this workshop and participating in this project’s development.

Newspaper: St. Petersburg Times
Contact: Jessica Attard
Phone: 869-6266
Fax: 869-6281

Please print in Pasco Times legal notices for 2
days: **June 8, 2011** and **June 15, 2011**
(Acct. No. 1000011034)

Submit **2** Proofs of Publication with invoice to:
Pasco County Board of County Commissioners -
Project Management Division
Attn: Nancy Hill
Engineering Records Technician
4454 Grand Boulevard
New Port Richey, FL 34652-5402

Notice of Public Workshop

The Pasco County Engineering Services Department will conduct a public workshop to inform the public of progress on this project and receive their comments on alternative alignments for Project Number C-10032.00, Little Road at Massachusetts Avenue and DeCubellis Road within Section 35, T25S, and R16E and Section 2, T26S, and R16E in Pasco County, Florida. Aerial maps will be on display with alternative alignments. County and Consultant representatives will be on hand during workshop hours to informally discuss the project and to answer questions. Residents are encouraged to come in and review this transportation improvement proposal.

The public workshop will be held:

Wednesday June 22, 2011
5:00 p.m. to 7:00 p.m.
at West Pasco Government Center
Commission Boardroom
7530 Little Road
New Port Richey, Florida 34654

Anyone needing special accommodation under the Americans for Disabilities Act of 1990 should contact Rosemary Tommolino by telephone at (727) 834-3604. Written comments may be directed to:

Pasco County Project Management
4454 Grand Boulevard
New Port Richey, FL 34652-5402