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# Lockheed Martin Corporation Tallevast Site Remedial Action Status Report September 2014 through August 2015 Tallevast, Florida

Prepared for:

Lockheed Martin Corporation

Prepared by:

AECOM

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FDEP Site No. 169624

FDEP Project No. 238148



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## EXECUTIVE SUMMARY

### Introduction

Lockheed Martin Corporation is committed to environmental stewardship and the communities in which they operate. Lockheed Martin Corporation is responsible for the assessment and cleanup of environmental impacts from the Lockheed Martin Tallevast Site (Site) (also known as the former American Beryllium Company Site) located at 1600 Tallevast Road in Tallevast, Manatee County, Florida. These cleanup activities are being conducted pursuant to Chapter 62.780, Florida Administrative Code and the requirements detailed in Consent Order No. 04-1328 executed by and between Lockheed Martin and the Florida Department of Environmental Protection, effective July 28, 2004.

In accordance with the Remedial Action Plan Addendum, Lockheed Martin Corporation submits this Remedial Action Status Report, which provides a comprehensive summary of the remedial and monitoring activities for the Site for the period from September 1, 2014 to August 31, 2015. This report also summarizes other Site-related programs. These programs include persulfate pilot study monitoring, groundwater level monitoring, effectiveness monitoring, private well monitoring, and wetlands monitoring.

### Background

Lockheed Martin acquired ownership of the former American Beryllium Company Facility through its 1996 acquisition of Loral Corporation. Lockheed Martin Corporation ceased operations at this Facility in late 1996 and in 2000 sold the Facility to BECSD, LLC, which leased the Facility to Wire Pro Inc. until January 2007. In January 2007 Wire Pro Inc. was sold to Cooper Industries, Inc., which leased the Facility until operations ceased in June 2007. Lockheed Martin Corporation leased the Facility from BECSD, LLC from July 2007 until June 30, 2009 when it repurchased the Facility. The Facility is located in Tallevast, a small unincorporated community situated in southwestern Manatee County between the cities of Sarasota and Bradenton, Florida.

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## Objectives

The Remedial Action Plan Addendum dated July 14, 2009 established the Remedial Action Objectives for this groundwater treatment system, which include the following:

- Reduce the potential for human exposure to contaminants of concern in groundwater;
- Hydraulically control groundwater containing contaminants of concern concentrations greater than the groundwater cleanup target levels as listed in Chapter 62-777, Florida Administrative Code;
- Actively extract and treat the groundwater contaminants of concern plume until concentrations are below groundwater cleanup target levels;
- Reduce the potential for exposure to contaminants of concern concentrations present in soil at the Facility; and
- Minimize community and natural resource disturbance.

## Remedial Action Summary

Lockheed Martin Corporation began construction of the groundwater remediation system in March 2011 with the installation of groundwater extraction wells and subsequent construction of the treatment plant in January of 2012. Newly installed asphalt and concrete cover provided engineering control to minimize exposure to contaminated soils on the treatment Facility property. Site construction and civil improvements were considered complete with the issuance of the Certificate of Occupancy on August 21, 2013.

As detailed in the Remedial Action Plan Addendum, the treatment system includes 77 vertical extraction wells, 4 extraction trenches, 5 injection wells, and 3 infiltration galleries connected using conveyance piping to a central treatment process area. The process area is housed within a 14,200 square-foot building. Startup and testing activities were initiated in February of 2013 and full time operation of the treatment system began on November 18, 2013.

Treatment system operation is continuously monitored by a full time operations staff. Compliance sampling and routine maintenance activities were performed as necessary during the performance period to maintain remedial action objectives. The treatment system actively

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extracted contaminants while operating at a 98.4% runtime and has met all permitted discharge requirements. Approximately 80,636,200 gallons of impacted groundwater were collected by the extraction well network and treated at the on-Facility treatment plant during this annual reporting period, resulting in a total of 148,905,900 gallons of groundwater extracted and treated since initial system startup in November 2013. Hydraulic capture of the contaminant plumes was verified through water level measurements from the Long Term Water Level Monitoring Program coupled with quarterly, semi-annual, and annual effectiveness sampling.

Lockheed Martin Corporation continued the persulfate compliance monitoring program that was initiated during remedial strategy evaluation and conducted as a result of testing performed for development of the 2009 Remedial Action Plan Addendum. Nearby reference and target wetlands were monitored during active pumping operations, as detailed in the July 2009 Wetlands Monitoring Plan established for the Site (ARCADIS, 2009b). On August 27, 2015 Lockheed Martin Corporation submitted the Annual Wetlands Monitoring Report to the Florida Department of Environmental Protection and the Southwest Florida Water Management District and a copy has been provided as an Appendix within this report.

### Conclusions and Recommendations

Lockheed Martin Corporation submits this Remedial Action Status Report as a summary of the remedial operations and monitoring programs for the second year of operation at the Lockheed Martin Tallevast Site and to detail compliance with the requirements provided in Consent Order No. 04-1328 and, as amended, Consent Order No. 08-2254 with an effective date of October 13, 2008. The implemented remediation system meets the remedial action objectives established in the Remedial Action Plan Addendum other than reducing COC below the groundwater cleanup target levels during this reporting period. This report recommends continued operation of the treatment system. Site personnel will conduct the next semi-annual monitoring well sampling event in February 2016 to monitor system effectiveness. Annual effectiveness monitoring is scheduled for August 2016. Wetlands monitoring is recommended to continue, as presented in the Wetlands Monitoring Report. Lockheed Martin continues their commitment to environmental stewardship, Site rehabilitation, and the Tallevast community.

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## CERTIFICATION

This Remedial Action Status Report for the Remedial Action Plan Addendum groundwater extraction and treatment system at the Lockheed Martin Tallevast Site located at 1600 Tallevast Road, Sarasota, Florida covers the time period of September 1, 2014 through August 31, 2015. This report has been prepared for Lockheed Martin Corporation under the direction of a State of Florida Registered Professional Engineer. The work and professional opinions rendered in this report were developed in accordance with Section 471 Florida Statutes, the governing state and federal regulations, and commonly accepted protocols and procedures. If conditions are discovered that differ from those described, the undersigned should be notified.



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# Acronyms, Abbreviations, and Units of Measurement

µg/L	Micrograms per Liter
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,4-D	1,4-dioxane
ABC	American Beryllium Company
AECOM	AECOM Technical Services, Inc.
AF	Arcadia Formation
AOP	Advanced Oxidation Process
bgs	Below Ground Surface
°C	Degrees Celsius
cis-1,2-DCE	Cis-1,2-dichloroethene
COC	Contaminant(s) of Concern
DO	Dissolved Oxygen
EW	Extraction Well
F.A.C.	Florida Administrative Code
Facility	The “Facility” is defined as the property of approximately 5 acres at 1600 Tallevast Road
FAS	Floridan Aquifer System
FDEP	Florida Department of Environmental Protection
FIT	Flow Indicator Transmitter
Floridan	Upper Floridan Aquifer
FP&L	Florida Power and Light
ft	Feet
ft <sup>2</sup>	Square Feet
GAC	Granular Activated Carbon
GCTLs	Groundwater Cleanup Target Levels



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gpm	Gallons per Minute
HDPE	High Density Polyethylene
IAS	Intermediate Aquifer System
ISCO	in-situ chemical oxidation
LEED	Leadership in Energy and Environmental Design
Lockheed Martin	Lockheed Martin Corporation
LPGAC	Liquid Phase Granular Activated Carbon
LSAS	Lower Shallow Aquifer System
LTWLM	Long Term Water Level Monitoring
MCUO	Manatee County Utility Operations
msl	Mean Sea Level
mL/min	Milliliters per Minute
MW	Monitoring Well
OMM	Operations, Maintenance, and Monitoring
PCE	Tetrachloroethene
P&IDs	Process and Instrumentation Diagrams
PLC	Programmable Logic Controller
POTW	Publicly Owned Treatment Works
PRF	Peace River Formation
PVC	Polyvinyl Chloride
RAO	Remedial Action Objective
RAP	Remedial Action Plan
RAPA	Remedial Action Plan Addendum
RASR	Remedial Action Status Report
RO	Reverse Osmosis
RWs	Reference Wetlands
S&P	Salt & Pepper
SIM	Selected Ion Monitoring
Site	The “Site” consists of both the Tallevast Facility and the surrounding area’s groundwater impacted by contaminants of concern

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SOP	Standard Operating Procedure
SWFWMD	Southwest Florida Water Management District
TCE	Trichloroethene
TDS	Total Dissolved Solids
TestAmerica	TestAmerica Laboratories, Inc.
TWs	Target Wetlands
USAS	Upper Surficial Aquifer System
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VFDs	Variable Frequency Drives
VOCs	Volatile Organic Compounds
WMP	Wetlands Monitoring Plan
WUP	Water Use Permit

# INTRODUCTION

Lockheed Martin Corporation (Lockheed Martin) presents this Remedial Action Status Report (RASR) to the Florida Department of Environmental Protection (FDEP). The activities within this RASR meet the requirements of Chapter 62.780, Florida Administrative Code (F.A.C.) and the Consent Order No. 04-1328 executed by and between Lockheed Martin and the FDEP and, as amended, Consent Order No. 08-2254 with an effective date of October 13, 2008. This document provides a comprehensive summary of the remediation and monitoring activities for the Site as described below.

## 1.1 GENERAL

This RASR describes treatment system operation and monitoring activities for the *Remedial Action Plan Addendum* (RAPA; ARCADIS, 2009a) groundwater extraction and treatment system at the Lockheed Martin Tallevast Site (also known as the Former American Beryllium Company [ABC] Site) (the Site) located in Tallevast, Manatee County, Florida (Figure 1-1). The RAPA (ARCADIS, 2009a), dated July 14, 2009, was approved by the FDEP on November 5, 2010. This RASR covers the reporting period from September 1, 2014 through August 31, 2015.

At the request of the FDEP, also presented in this RASR are results of the annual Persulfate Pilot Study Monitoring, the Wetlands Monitoring, and the Long Term Water Level Monitoring (LTWLM) programs which were conducted in accordance with the FDEP and RAPA requirements.

As required by the FDEP, this RASR was prepared in accordance with and contains the applicable items required in Rule 62.780.700(12), F.A.C. for a RASR. The results, analyses and activities described in this report demonstrate adherence to Lockheed Martin commitments and FDEP requirements. The RASR also provides permit compliance status for Southwest Florida

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Water Management District (SWFWMD) Water Use Permit No. 20 020198.000 and Manatee County Discharge Permit #IW-0025S. Manatee County Utility Operations (MCUO) will receive reports at a frequency concurrent with FDEP reporting requirements.

## **1.2 OBJECTIVES**

The groundwater extraction and treatment system Remedial Action Objectives (RAOs) provided in the RAPA are as follows:

- Reduce the potential for human exposure to contaminants of concern (COC) concentrations in groundwater;
- Hydraulically control groundwater containing COC concentrations greater than the groundwater cleanup target levels (GCTLs) as listed in Chapter 62-777, F.A.C.;
- Actively extract and treat the groundwater COC plume until concentrations are below GCTLs;
- Reduce the potential for exposure to COC concentrations present in soil at the Facility; and
- Minimize community and natural resource disturbance.

The RASR provides descriptions and results demonstrating achievement of the RAOs.

## 1.3 REPORT ORGANIZATION

This report is organized into seven sections as described below.

Section	Description
1 - Introduction	Presents the purpose and objectives of Tallevast Site remedial actions, as well as the organization of this report.
2 - Background	Summarizes the location, physical setting, topographic setting, geology and hydrogeology, of the Lockheed Martin Tallevast Site and Facility operations.
3 - Groundwater Extraction and Treatment System Description	Provides a summarized description of the groundwater extraction and treatment system.
4 - System Operation, Maintenance, and Monitoring Activities	Describes operations, maintenance, and monitoring (OMM), LTWLM, Persulfate Pilot Study, and Wetlands Monitoring activities conducted during the period covered by this report.
5 - System Operation, Maintenance, and Monitoring Results	Describes the results from OMM, LTWLM, Wetlands Monitoring, and Persulfate Pilot Study activities conducted during the period covered by this report.
6 – Findings, Conclusions and Recommendations	Summarizes findings and conclusions from data and analysis presented in this report along with recommendations for any changes to system operations or monitoring.
7 - References	Lists the references used to prepare this report.

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## Section 2

# BACKGROUND

This section of the RASR provides an overview of the Facility location, regulatory setting, Facility description, and historical operations. Additional background details can be found in the *Lockheed Martin Tallevast Site RASR* (AECOM, 2014) submitted to the FDEP October 28, 2014.

### 2.1 FACILITY LOCATION

The Facility is an approximately five-acre property located at 1600 Tallevast Road, between the cities of Sarasota and Bradenton, in southwestern Manatee County, Florida. Land use in the area is predominantly single-family residential homes, churches, light commercial and industrial development, and heavy manufacturing. Most of the ground cover in the area consists of grass fields with residential landscaping. A small golf course located adjacent and to the south of the Facility is also present. The location of the Facility is shown on Figure 1-1. The Site consists of both the Facility (also referred to as the “on-Facility” portion of the Site) and the surrounding area’s groundwater that is impacted by COC (referred to as the “off-Facility” portion of the Site).

### 2.2 REGULATORY SETTING

The RAPA was developed in accordance with the Consent Order for the Site entered into by Lockheed Martin and FDEP. The File Number for the Consent Order is 04-1328 with an effective date of July 28, 2004, and, as amended, Consent Order No. 08-2254 with an effective date of October 13, 2008. The Consent Order required Lockheed Martin to perform assessment and remediation activities at the Site.

Lockheed Martin submitted the RAPA to the FDEP on July 14, 2009. The FDEP issued a RAP Approval Order on November 5, 2010. Construction of the full-scale groundwater remedy provided in the RAPA began in March 2011. A challenge to the RAP Approval Order was heard by an Administrative Law Judge, who recommended in an October 6, 2011 filing that FDEP

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issue a final order approving the RAPA. The final order from FDEP was received on January 4, 2012, and construction of the RAPA treatment system was completed April 2013. The startup of the RAPA treatment system occurred on November 18, 2013.

## **2.3 FACILITY DESCRIPTION**

### **2.3.1 Physical Setting**

The Facility encompasses an area slightly larger than five acres and is zoned by Manatee County. It is bounded by Tallevast Road to the north; 17th Street Court East and railroad tracks to the east; a golf course, undeveloped land, and residential areas to the south; and an abandoned industrial property to the west, as shown on Figure 2-1. The treatment building is located in the north central portion of the Facility property. Another significant on-Facility surface feature is a landscaped stormwater retention pond, reportedly constructed in approximately 1960. Asphalt with an artificial turf overlay surrounds the stormwater retention pond to the north, south and east. A concrete driveway is located to the south and to the west of the pond. A pond retention wall was added as part of Site civil improvements that were completed in 2012. The treatment building is surrounded by a concrete parking area to the east, a concrete driveway to the south, and asphalt with an artificial turf overlay to the north and to the west, as shown on Figures 2-1 and 2-2.

The remaining off-Facility portion of the Site encompasses a broader area to the north, east, south and west of the Facility property. A map showing the Site monitoring well, extraction well, stilling well, private well and staff gauge locations is presented as Figure 2-3. Properties adjoining and near the Facility include the Sarasota-Bradenton Airport to the southwest, a small golf course/driving range to the south, an abandoned industrial Facility (formerly operated at various times by ABC, Spindrift, Wellcraft and Whogas) to the west, a CITGO gas station approximately 500 feet (ft) northwest, and a north-south trending spur of the Seminole Gulf Railroad that intersects Tallevast Road approximately 200 ft east of the Facility. Aside from these features, surrounding properties are primarily single-family residences. Two churches and the Tallevast Community Center are also located nearby.

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### **2.3.2 Topographic Setting**

The Facility is located on a gently sloping plain known as the Gulf Coastal Lowlands at an elevation of approximately 30 ft above mean sea level (msl). It is approximately 1.5 miles east (inland) of Sarasota Bay and approximately six miles from the Gulf of Mexico. Generally, the land surface close to the Facility to the west, east, and south slopes gently south toward the golf course drainage swale, which slopes west to ditches located along 15<sup>th</sup> Street East, beyond which the slope continues to the south. Immediately north of the Facility building the slope is north toward Tallevast Road. The land surface declines from approximately 30 ft above msl at the Facility to 25 ft above msl to the west, near the intersection of Tallevast Road and 15<sup>th</sup> Street East. Farther west, land surface elevations decrease to approximately 15 ft above msl just north of the Sarasota-Bradenton Airport. North, northeast, southeast, and southwest of the Facility, elevation contours show a very gentle slope from approximately 30 ft above msl at the Facility to 25 ft above msl at a distance of approximately 2,000 ft from the Facility.

### **2.3.3 Regional and Site Hydrology**

The Site is located in the Sarasota Bay watershed within the Florida Southern Coastal Watershed. The Southern Coastal Watershed includes numerous estuaries, wetlands, and small coastal streams that are tidally influenced over much of their length, and a few longer stream/canal systems with predominantly freshwater habitats. The Sarasota Bay watershed drains more than 200 square miles within Manatee, Sarasota, and Charlotte Counties. In the area of the Site, the Braden River watershed, a sub-basin of the Manatee River watershed, borders the Sarasota Bay watershed to the east.

The Site is located along the drainage divide between two stream/canal systems, Bowlees Creek and Pearce Canal, within the Sarasota Bay and Braden River watersheds. Bowlees Creek, a major tributary of Sarasota Bay, extends from east to west and is located approximately 1.25 miles northwest of the Facility at its closest point. The Pearce Canal extends generally from northeast to southwest and is located approximately 0.75 mile southeast of the Facility at its closest point. A topographical high runs north-south through the Facility, between the Pearce Canal to the east and Sarasota Bay to the west. Surface water on the western portion of the Facility flows west toward improved drainage features around the Sarasota-Bradenton Airport,



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which drain into Sarasota Bay. Surface water on the easternmost portion of the Facility flows toward the Pearce Canal. The Pearce Canal drains both south into the Sarasota Bay watershed and north into the Braden River watershed. The drainage divide in the Pearce Canal is located about 1 mile north of the Manatee/Sarasota County line, which is approximately where the canal crosses US 301 approximately 1 mile southeast of the Site. Therefore, surface water from the easternmost portion of the Site drains into the portion of the Pearce Canal that enters the Braden River watershed.

A number of small surface water bodies are located within a 0.5 mile radius of the Facility. Several shallow swales also convey surface runoff to streets and storm water channels. In addition, a number of wetlands have been identified near the Site according to the Florida Department of Transportation Florida Land Use, Cover, and Forms Classification System.

#### **2.3.4 Regional and Site Geology and Hydrogeology**

In January 1995, the SWFWMD published a report titled *ROMP TR-7 Oneco Monitor Well Site, Manatee County, Florida* (SWFWMD, 1995), which describes the drilling and testing of a well completed to a reported depth of 1,715 ft below ground surface (bgs) at a location approximately 2.5 miles north of the Facility in southwestern Manatee County. The nomenclature used in this report to describe subsurface sediments is typically used to describe consolidated carbonate formations in the Site area and is, therefore, used for this Site.

Three main lithostratigraphic units are present in the region, which are further subdivided for remedial characterization, monitoring, and remedial action purposes into hydrogeologic units and water-bearing zones. From the surface downward, the geologic units underlying southern Manatee County consist of the following:

- Undifferentiated Surficial Deposits (Middle Pliocene to Recent).
- The Hawthorn Group, consisting of the Peace River Formation (PRF) (Lower Pliocene to Middle Miocene) and the Arcadia Formation (AF) (Middle Miocene to Middle Oligocene). The AF consists of an upper undifferentiated section and the lower Tampa Member (Lower Miocene to Upper Oligocene).

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- There is a thick sequence of marine carbonates (limestone and dolomite) below the Tampa Member of the AF and includes the Suwannee Limestone (Lower Oligocene), Ocala Limestone (Upper Eocene), and the Avon Park Formation (Middle Eocene).

For the Site, the main geologic units listed above are further subdivided into the local hydrogeologic units and water-bearing zones. Characteristics of these systems are briefly described below.

- Surficial Aquifer System (SAS) — The unconfined surficial aquifer overlying the Hawthorn Group.
  - Upper Surficial Aquifer System (USAS) — The unconfined surficial aquifer, consisting of unconsolidated Pleistocene to recent siliciclastic sand with an increasing percentage of fine-grained material toward the bottom of the unit. This unit is generally encountered above 30 ft bgs.
- Intermediate Aquifer System (IAS) and Confining Units — The confined aquifers overlying the Upper Floridan Aquifer (Floridan). This aquifer system is made up of strata from the Hawthorn Group, which is comprised of the PRF and the AF.
  - Lower Shallow Aquifer System (LSAS) — The uppermost portion of the PRF, the top of which is indurated moldic limestone/calcareous rock known locally as the Hard Streak. The LSAS consists of a series of interbedded limestone, clay, and carbonate mudstone units. The LSAS is generally encountered approximately 30 ft bgs.
  - Venice Clay — The lower portion of the PRF, consisting of siliciclastic to calcareous clays with a distinctive greenish-grey to olive color.
  - Clay/Sand Zone 1 — The uppermost sub-unit of the AF, consisting of a series of low-permeability carbonate mudstones.

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- Upper AF Gravels (AF Gravels) — A fractured to vuggy carbonate unit located at a depth of approximately 100 ft bgs in the AF. This unit is significantly more permeable than the overlying and underlying AF units, and is usually identified in drilling logs as “wet.” Hereafter, the term AF Gravels is only used to refer to the Upper AF Gravels.
  - Clay/Sand Zone 2 — A sub-unit of the AF consisting primarily of low-permeability carbonate mudstones.
  - Salt & Pepper (S&P) Sands — A sub-unit of the AF characterized by increased sand content. The light quartz sand grains and dark phosphatic sand grains give it a black and white speckled (salt and pepper) appearance. The S&P Sands are more permeable than the overlying and underlying units, but less permeable than the AF Gravels. It is generally found at a depth of approximately 145 ft bgs.
  - Clay/Sand Zones 3 & 4 and Lower AF Gravels — A sub-unit of the AF consisting of a series of low-permeability calcareous mudstones (Clay/Sand Zones 3 and 4) and a somewhat higher permeability carbonate (Lower AF Gravels) located between the low permeability zones.
  - Lower AF Sands — A sub-unit of the AF containing an increased percentage of sand sized particles and located at a depth of approximately 280 ft bgs.
  - Clay/Sand Zone 5 — A sub-unit of the AF consisting of a series of calcareous mudstones.
  - The Floridan Aquifer System (FAS) underlies the SAS and IAS across the Site. The Floridan consists of the Tampa Member of the AF Gravels, the Suwannee and Ocala Limestones, and the upper part of the Avon Park Formation. The Floridan is comprised of a series of limestone to dolomite units, which are used for local water supply and irrigation wells. The stratigraphic column is provided in Figure 2-4.

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## **2.4 FACILITY OPERATIONS**

The following sections summarize the history of Site operations and RAPA implementation.

### **2.4.1 History of Site Operations**

From 1962 until 1996, the Facility was owned by Loral Corporation and operated by ABC as an ultra-precision machine parts manufacturing plant in which metals were milled, lathed, and drilled into various components. Some of the components were finished by electroplating, anodizing, and ultrasonic cleaning. Chemicals used and wastes generated at the Facility included oils, fuels, solvents, acids, and metals. Lockheed Martin acquired ownership of the former ABC Facility through its 1996 acquisition of Loral Corporation, the parent company of ABC. Plant operations were discontinued in late 1996. Lockheed Martin sold the property in 2000 and re-purchased it in June 2009 in order to prepare it for remedial actions.

### **2.4.2 History of RAPA System Implementation**

Field construction of the off-Facility vertical groundwater extraction wells began in March 2011. Construction of the treatment plant began in January of 2012, and Manatee County issued a Temporary Certificate of Occupancy on February 1, 2013. Construction reached substantial completion on April 19, 2013. Manatee County issued the final Certificate of Occupancy on August 21, 2013 when all Site civil improvements were completed.

Startup and testing activities began in February 2013 and concluded on November 18, 2013, the date of official FDEP system startup. As-built Drawings, which included the soil control plan at the completion of Site civil activities, were submitted to the FDEP on November 14, 2013. The Site is currently in the OMM phase of remedial activities.

# GROUNDWATER EXTRACTION AND TREATMENT SYSTEM DESCRIPTION

Presented in this section are a summarized process description of the Tallevast treatment system and the associated groundwater extraction system. Additional details can be found in the *Lockheed Martin Tallevast Site RASR* (AECOM, 2014) submitted to the FDEP on October 28, 2014.

## 3.1 TREATMENT BUILDING SUMMARY

The groundwater treatment system and the associated treatment building are located in the north central portion of the Facility as shown on the Facility Plan provided in Figure 2-2. The treatment system process equipment is housed inside a Leadership in Energy and Environmental Design (LEED) Silver-certified 14,200 square feet (ft<sup>2</sup>) Mediterranean-style reinforced concrete building. The General Arrangement Plan provides the location of treatment system equipment in the process area and is provided in Figure 2-5. Process and Instrumentation Diagrams (P&IDs) were provided in Appendix B of the *Lockheed Martin Tallevast Site RASR* (AECOM, 2014).

The process area contains the treatment equipment, chemical containment rooms, and the loading dock. Two chemical containment rooms located in the process area are designed for storage of the process chemicals used in the treatment process. The caustic containment room houses approximately 1,200 gallons of 50% sodium hydroxide, and the acid containment room stores 500 gallons of 93% sulfuric acid. The treatment building is designed to contain the entire volume of water in the treatment plant. The Facility is served by Florida Power and Light (FP&L)

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electric service and Manatee County water and sewer utilities. Security cameras and exterior lighting are located in the parking lot and surrounding grounds. An 8-foot tall hardened security fence is located around the perimeter of the property with security-accessible automatic gates providing access to the Site from Tallevast Road and 17th Street Court East.

### **3.2 EXTRACTION WELL SUMMARY**

The groundwater extraction system consists of 77 vertical groundwater extraction wells that were installed using roto-sonic drilling technology and four horizontal extraction wells described in the next paragraph. The vertical extraction wells are 6-inches in diameter and constructed using stainless-steel, continuous wire-wrapped screen. Casing and sump materials are Schedule 80 polyvinyl chloride (PVC). The vertical extraction wells were completed with bentonite grout seals extending from the top of the fine sand or bentonite seal, to the bottom of the lockable well vault. A submersible pump and pressure transducer are located in each extraction well. Wellhead piping with isolation valves are housed in a lockable well vault at each extraction well location.

In addition to the vertical groundwater extraction wells, four horizontal extraction wells were installed to depths near the top of the hard streak (approximately 30 ft bgs). The horizontal extraction wells were constructed in trenches in order to extract groundwater from the USAS. The horizontal extraction wells placed within the trenches consist of 6-inch diameter high density polyethylene (HDPE) SDR-11 0.030-inch slotted well screens and 6-inch diameter casings with endpoint cleanouts. The horizontal trenches contain 3/8-inch stone as permeable backfill that extends from the bottom of the trench to approximately 1 foot to 3 ft bgs. The upper 1 foot to 3 ft of each trench contains native fill. A 12-inch diameter HDPE vertical sump is located at the head of each extraction trench. A submersible pump and pressure transducer are located in the extraction sump of each horizontal extraction well. Each extraction sump is housed in a lockable well vault, which includes discharge piping and isolation valves.

### **3.3 EXTRACTION WELL PUMP AND PROCESS CONTROL SUMMARY**

The treatment system extracts groundwater from 32 on-Facility vertical wells, 45 off-Facility vertical wells, and the four off-Facility horizontal wells. Groundwater is extracted from the upper four water-bearing zones underlying the Site to remove contaminated groundwater both in the

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on-Facility and off-Facility portions of the groundwater plume. The primary objectives of the extraction well system are to provide hydraulic containment and capture of the COC plume and to ultimately achieve GCTLs in groundwater beneath the Site.

Electric submersible pumps with variable frequency drives (VFDs) are used in the horizontal and vertical extraction wells. The master control panel, located at the treatment building, controls the extraction well pumps. For control purposes, the extraction well pumps are segregated into five well groups based on well location and aquifer zone of installation. The groundwater extraction wells are capable of operating in two control modes: constant water level in extraction wells or by controlling the flow rate pumped from extraction wells.

### **3.4 CONVEYANCE PIPING AND FIELD UTILITIES**

Groundwater from horizontal and vertical extraction wells is transported in the underground conveyance piping network to the treatment plant. Conveyance piping for the off-Facility wells is manifolded locally at the wellhead with each vault containing a pressure transducer, sample port, check valve, Y strainer, and isolation ball valve. Piping from the individual off-Facility wells connects to main pipelines for conveyance of groundwater to the treatment building. On-Facility extraction and injection wells are contained inside of pre-cast concrete manholes with the flow meters, check valves and sample ports housed inside of the treatment building instead of at each well vault. On-Facility extraction wells are individually piped to the treatment building. Conveyance piping for all of the on-Facility and off-Facility extraction wells are eventually manifolded together once inside the treatment building. The off-Facility conveyance piping network contains main pipeline cleanouts that are contained inside pre-cast concrete manholes. These cleanouts are designed to provide access for maintenance of the main pipeline when necessary.

The groundwater discharged from horizontal and vertical extraction wells is piped from the well vaults to the treatment building in sub-grade dual-containment HDPE pipe. Field utilities consist of twenty stainless steel electrical panels that house well pump motor VFDs, instrumentation, and communications equipment. These panels are powered by 11 individually metered FP&L electrical service drops equipped with service disconnects.

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### 3.5 TREATMENT PLANT PROCESS OPERATION SUMMARY

Extracted groundwater is pumped to the treatment plant where pre-treatment equipment is used to adjust the pH of the groundwater, oxidize metals, and remove solids through settling using settling tanks, media filters and ultrafiltration. Solids and metals removed are pumped to a solids thickening tank for further settling, and the concentrated solids are dewatered using a filter press before being loaded into 55-gallon drums and transported to a licensed landfill. Advanced oxidation process (AOP) units and liquid phase granular activated carbon (LPGAC) vessels are used to provide treatment of Site COC. LPGAC is used primarily for removal of the 1,1-dichloroethane (1,1-DCA) that remains after AOP treatment. Water that has been treated through the settling tanks, filters, AOPs, and activated carbon processes meets the publicly owned treatment works (POTW) discharge standards. Treated water can be used for: 1) on-Facility injection wells; 2) further process treatment through softeners and reverse osmosis (RO) systems for application to the infiltration galleries; 3) backwash supply water for the media filters and LPGAC vessels; 4) and as non-potable process water used for equipment washdown and miscellaneous non-potable uses. The remainder of the treated water is discharged to the POTW. The on-Facility injection wells are intended to recharge the USAS on-Facility via a series of five passive injection wells to conduct focused flushing of areas with the highest historical COC concentrations. The three off-Facility infiltration galleries maintain established wetland hydroperiod water levels to minimize wetland health impacts due to drawdown effects of the groundwater extraction system in select areas. Water sent to recharge galleries is first treated by softening and RO to meet GCTLs and Florida Surface Water Quality Criteria. Injection well water is not expected to have to undergo softening and RO treatment.

Chemical dosing systems provide sodium hydroxide and sulfuric acid for pH adjustment. A compressed air system operates all pneumatic systems, including double-diaphragm pneumatic pumps and the pneumatic valves. Displaced air from each of the pre-AOP holding tanks, backwash surge tank, and solids thickening tank vent systems is routed to the vapor phase granular activated carbon vessels for passive treatment of volatile organic compounds (VOCs).

Various process instruments are used to monitor key process variables (primarily flow rate, water level, line pressures, pH and temperature). Redundant alarms, switches, and control logic are used to automate the treatment system and prevent system failures such as accidental overfilling



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of tanks. A programmable logic controller (PLC) provides control and communications between systems, equipment, and instrumentation. The treatment building includes an operations room where operators can monitor and control the treatment system. Refer to Figure 2-6 for a process flow diagram.

All process treatment equipment, tanks and piping are located within the treatment building's process area secondary containment structure. All chemical storage tanks and metering pumps are housed in dedicated secondary containment rooms to allow no intermingling of chemicals, and all chemical feed piping has secondary containment.

# SYSTEM OPERATION, MAINTENANCE, AND MONITORING ACTIVITIES

This section describes activities conducted as part of system operation, maintenance, and monitoring. The data and findings resulting from these activities are detailed in Sections 5 and 6.

## 4.1 SYSTEM OPERATION

The groundwater extraction and treatment system operated continuously from September 1, 2014 through August 31, 2015, with the exception of downtime for required OM&M activities identified in Table 1 and unplanned shutdowns.

Full-time plant operators were on duty at the Facility 24 hours per day, seven days per week, to monitor system operations and perform routine maintenance. An OMM log describing key treatment system operations, maintenance activities and downtime events is presented in Table 1. Treatment plant shift daily logs for the reporting period document the key treatment system readings and are presented in Appendix A. System runtime is discussed in Section 5.1, and historical system runtime is presented in Table 2. Monthly extraction well volumes are presented in Table 3.

System downtime events are defined as activities or process interruptions that result in the complete shutdown of all of the extraction well and trench pumps. Some typical examples of downtime events include system troubleshooting, pH probe calibration, power outages, chemical tote replacement, and equipment repairs and replacements.

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## **4.2 WATER TREATMENT PROCESS AND COMPLIANCE MONITORING**

The following sections describe water treatment process sampling and laboratory analyses performed during the operational period. In addition, data that demonstrates RAPA and regulatory permit compliance are provided. Water treatment and compliance sampling was conducted in accordance with FDEP Standard Operating Procedures (SOPs) FS2000 *General Aqueous Sampling*, revision date March 1, 2014 and FC1000 *Cleaning/Decontamination Procedures*, revision date March 1, 2014.

### **4.2.1 Compliance Sampling**

Treatment system POTW effluent compliance samples were collected in accordance with the monitoring schedule prescribed in RAPA Table 12-1 (see Table 4) and the requirements of Manatee County Discharge Permit #IW-0025s (see Appendix B). Compliance sampling dates for sampling completed during the reporting period are presented in Section 4.2.2. The analytical results of this sampling are described in Section 5.2. Analytical results are shown in Table 5. A discharge flow meter ([flow indicator transmitter] FIT-500) calibration sheet from November 24, 2014 is presented in Appendix C.

TestAmerica Laboratories, Inc. (TestAmerica) located in Tampa, Florida analyzed compliance samples using United States Environmental Protection Agency (USEPA) Method 8260B for VOCs and USEPA Method 8260C with heated purge and selected ion monitoring (SIM) for 1,4-dioxane (1,4-D). POTW effluent samples were also analyzed for the 11 metals (aluminum, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, zinc, sodium, and molybdenum) specified in the MCUO Discharge Permit by USEPA Method 6010B.

### **4.2.2 Treatment System Performance Monitoring Sampling**

RO system effluent performance samples were collected October 7, 2014, January 8, 2015, April 6, 2015, and July 6, 2015 to monitor discharge to infiltration gallery RC-7002 adjacent to Target Wetland 6 (TW-6).

TestAmerica analyzed these samples using USEPA Method 8260B for VOCs and USEPA Method 8260C with heated purge, and SIM for 1,4-D. RO system effluent samples were also

analyzed for the 10 metals (aluminum, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, zinc, and sodium) by USEPA Method 6020A, total dissolved solids (TDS) by Standard Method 2540C, and for chloride and sulfate by USEPA 300.0 as specified in RAPA Table 10-3 (see Table 6) to confirm RO-treated permeate met the lower of either GCTL or surface water quality criteria for discharge to infiltration galleries and adherence to GCTL for discharge to re-injection wells.

To monitor critical process performance parameters and to better anticipate carbon breakthrough, additional samples were collected at the combined influent, AOP feed, AOP effluent, and the primary and secondary carbon vessel discharge sampling points and analyzed for VOCs and 1,4-D. Refer to Table 7 – Analytical Results Process Monitoring and Table 8 – Analytical Results Combined Influent for results from this process sampling. Section 5.2 includes a discussion of the analytical results of that sampling. TestAmerica analyzed these samples using USEPA Method 8260B for VOCs and USEPA Method 8260C with heated purge, and SIM for 1,4-D.

Presented below is a summary of the treatment system compliance and process monitoring sampling performed during the reporting period.

<b>Date</b>	<b>Sampling Event</b>	<b>Test Method(s)</b>
09/15/14	Process Monitoring	8260B, 8260C SIM
09/26/14	Process Monitoring	8260B, 8260C SIM
10/07/14	RO System Effluent Performance Sampling	8260B, 8260C SIM, 6020A, SM 2540C, 300.0
10/08/14	Process Monitoring	8260B, 8260C SIM
10/24/14	Process Monitoring	8260B, 8260C SIM
11/07/14	POTW Effluent Compliance	8260B, 8260C SIM, 6010B
11/07/14	Process Monitoring	8260B, 8260C SIM
11/21/14	Process Monitoring	8260B, 8260C SIM
12/05/14	Process Monitoring	8260B, 8260C SIM
12/19/14	Process Monitoring	8260B, 8260C SIM
01/05/15	Process Monitoring	8260B, 8260C SIM

Date	Sampling Event	Test Method(s)
01/08/15	RO System Effluent Performance Sampling	8260B, 8260C SIM, 6020A, SM 2540C, 300.0
01/16/15	Process Monitoring	8260B, 8260C SIM
01/27/15	Process Monitoring	8260B, 8260C SIM
02/06/15	POTW Effluent Compliance	8260B, 8260C SIM, 6010B
02/17/15	Process Monitoring	8260B, 8260C SIM
02/27/15	Process Monitoring	8260B, 8260C SIM
03/16/15	Process Monitoring	8260B, 8260C SIM
03/27/15	Process Monitoring	8260B, 8260C SIM
04/06/15	RO System Effluent Performance Sampling	8260B, 8260C SIM, 6020A, SM 2450C, 300.0
04/10/15	Process Monitoring	8260B, 8260C SIM
04/28/15	Process Monitoring	8260B, 8260C SIM
05/05/15	POTW Effluent Compliance	8260B, 8260C SIM, 6010B
05/15/15	Process Monitoring	8260B, 8260C SIM
06/01/15	Process Monitoring	8260B, 8260C SIM
06/12/15	Process Monitoring	8260B, 8260C SIM
07/01/15	Process Monitoring	8260B, 8260C SIM
07/06/15	RO System Effluent Performance Sampling	8260B, 8260C SIM, 6020A, SM 2540C, 300.0
07/17/15	Process Monitoring	8260B, 8260C SIM
07/31/15	Process Monitoring	8260B, 8260C SIM
08/04/15	POTW Effluent Compliance	8260B, 8260C SIM, 6010B
08/17/15	Process Monitoring	8260B, 8260C SIM
08/28/15	Process Monitoring	8260B, 8260C SIM

#### 4.2.3 SWFWMD Water Use Permit Compliance

The SWFWMD issued General Water Use Permit (WUP) No. 20 020198.000 on November 18, 2011. The permit expires on November 18, 2021 and is to be renewed one year prior to the date of expiration. As prescribed in the permit, Lockheed Martin is permitted to extract a total of 410,600 gallons daily from the network of extraction wells and extraction trenches. Additionally,

water use from individual extraction wells and trenches is restricted to specific quantities which are prescribed in the WUP and which total 410,600 gallons per day. Permit requirements are prescribed to mitigate drawdown in nearby water supply wells. Per SWFWMD requirements, Lockheed Martin is prepared to investigate comments or complaints from off-Facility claims, if necessary; however, there have been no complaints since startup. Table 3 - Monthly Extraction Well Volumes presents monthly extraction well volumes pumped. Table 9 summarizes Groundwater Volumes Extracted, Treated, and Discharged. Section 5.1 summarizes the reporting period monthly influent flow totals plus the daily maximum and average flows. Permit special conditions require monthly reporting of meter readings at three District compliance points (District Identification numbers DID-95, DID-96, and DID-97) that correspond to the treatment system influent (FIT-100), discharge total for the infiltration galleries (FIT-665, FIT-7001, and FIT-7002) and injection wells (RC-6001, RC-6002, RC-6003, RC-6004, RC-6005), and discharge to the sanitary sewer system (FIT-500), respectively. Summarized below are the dates that monthly WUP compliance point flow totals were submitted to the SWFWMD online e-Permitting website service portal. Appendix C contains flow meter calibration sheets for the extraction wells, combined influent, POTW discharge, and infiltration gallery flow meters.

<b>Month</b>	<b>SWFWMD E-Permitting Submittal Date</b>
September 2014	October 9, 2014
October 2014	November 3, 2014
November 2014	December 1, 2014
December 2014	January 5, 2015
January 2015	February 2, 2015
February 2015	March 3, 2015
March 2015	April 1, 2015
April 2015	May 1, 2015
May 2015	June 1, 2015
June 2015	July 1, 2015
July 2015	August 4, 2015
August 2015	September 2, 2015

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## 4.3 Groundwater Level Monitoring

Groundwater level monitoring provides a means of determining hydraulic capture of the COC plume during pumping conditions. The following sections describe the water level gauging events during the reporting period.

### 4.3.1 Quarterly, Semi-Annual, and Annual Gauging Events

In accordance with the approved RAPA, quarterly and semi-annual gauging events were performed on November 2014 and February 2015, respectively, followed by a comprehensive water level event in August 2015, conducted as part of the annual groundwater sampling event.

In October 2014, January 2015, and May 2015 Lockheed Martin installed 20 piezometers within the USAS at the golf course, northwest area, and on the agricultural area to the southeast, which provide additional supporting information for contouring water level elevations in these areas. These newly installed piezometers were included in the semi-annual and annual gauging events. Boring logs, well construction and development logs and survey information are provided in Appendix D.

Summarized below is a diagram showing the groundwater level monitoring dates per the schedule prescribed in Table 12-1 of the RAPA.

<b>Event</b>	<b>Water Level Gauging Event Date</b>
Fourth Quarterly	November 5, 2014
First Semi-Annual	February 3, 2015
Annual	August 5, 2015

During the November 2014 and February 2015 events, field crews collected depth to water readings from 168 and 178 accessible monitoring points, respectively. The monitoring points include monitoring well, staff gauge, stilling well, and newly installed piezometer locations. Section 5.3 summarizes the results of that monitoring and Table 10 presents the collected data. The all-inclusive annual gauging event is described in the following section.

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### **4.3.2 Annual Effectiveness Monitoring Event Gauging**

On August 4 and 5, 2015, sampling personnel collected groundwater level monitoring data during the annual event, with measurements taken from 278 monitoring wells, piezometers, staff gauges, and stilling wells, as detailed in Table 11. Groundwater elevation and potentiometric contour maps were developed using data collected from the USAS, LSAS, AF Gravels, S&P Sands, Lower AF Sands, and Floridan Aquifer. These data are presented in Figures 3-1 through Figure 3-6, respectively. Treatment system capture boundaries shown on these figures are estimated using monitoring well and piezometer data, and professional judgment.

### **4.3.3 Long Term Water Level Monitoring Program**

The LTWLM program began in 2008 and has identified specific off-Site pumping stresses of potential concern, which were further investigated and addressed, as necessary. The objective of LTWLM is to characterize hydraulic inter-relationships and gradients between geologic units on-Facility and off-Facility, to allow evaluation of potential regional groundwater trends, and to monitor the effects of groundwater extraction. The LTWLM program includes ongoing data collection and analysis, maintenance, and reporting of the LTWLM network of transducers located at the Site. The *Long Term Water Level Monitoring Program Annual Report* (Tetra Tech, Inc., 2015) is provided in Appendix E.

### **4.3.4 Wetlands Monitoring Program**

The July 2009 *Wetlands Monitoring Plan* (WMP; ARCADIS, 2009b) was implemented in accordance with an FDEP requirement for wetlands monitoring associated with the installation and startup of the RAPA groundwater extraction and treatment system. Annual baseline assessments were conducted for four years (June 2009 through May 2013) prior to groundwater extraction associated with the RAPA implementation. Staff gauges and monitoring wells were installed between November 2009 and February 2010. Data collected from June 2009 to May 2013 was used to establish a baseline of groundwater and surficial wetland hydrology for reference wetlands (RWs) and TWs. This information was used to document local fluctuations in groundwater elevations and the corresponding effect on wetland function. These data were used to establish thresholds that determine whether TWs will require hydraulic maintenance or



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compensatory mitigation as a result of RAPA system operation. Semi-annual wetland water-level monitoring events were conducted in September 2014 and March 2015, as supported by additional quarterly water level monitoring in December 2015 and June 2015. The annual wetlands assessment was conducted in June 2015.

#### **4.4 Groundwater Quality Monitoring**

In accordance with the RAPA, quarter 4, year 1 and semi-annual, year 2 groundwater monitoring events were conducted in November 2014 and February 2015, respectively. These events included the 54 monitoring wells that are identified in Table 4.1 of the 2012 Groundwater Monitoring Report (ARCADIS 2013) and in Table 11 of this report. In accordance with the RAPA, an annual groundwater monitoring event took place in August 2015 that included 164 monitoring wells, private wells and piezometers. The monitoring wells that were sampled were detailed in Table 19 of the 2014 RASR and the Response to Comments submitted by Lockheed Martin to FDEP on February 16, 2015. Please note, several wells were abandoned and several others were enclosed by protective PVC casings during this reporting period, as described in Section 5.4.4 below.

Groundwater sampling was conducted in accordance with FDEP SOP *FS 2200 Groundwater Sampling*, revision date March 31, 2014, and FC 1000 Cleaning/Decontamination Procedures. A copy of FDEP Form FD 9000-24 Groundwater Sampling Log was completed for each monitoring well and extraction well during sampling activities. Completed groundwater sampling logs for all groundwater sampling events conducted during this reporting period are included in Appendix F. Equipment used for field measurements were calibrated each morning before the start of purging and sampling and a calibration check was conducted in the afternoon after activities were completed for the day.

Field personnel sampled private wells as part of the annual effectiveness monitoring event and extraction wells as part of the RAPA system performance monitoring program. Extraction wells were sampled on a quarterly basis in November 2014, February 2015, May 2015 and August 2015. Extraction wells were sampled via dedicated sample ports located inside the RAPA treatment system building or at the local sample port located in the extraction well vault. A total of six private wells were scheduled to be sampled, but due to construction in the area causing

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access restrictions, only five private wells were sampled during the August 2015 annual sampling event. The extraction wells and private wells were purged and sampled according to FDEP SOP FS 2215 (Purging Wells with Plumbing). The spigot or sample port was opened and a volume of water sufficient to clear the line was purged. The flow rate was then reduced to less than 500 milliliters per minute (mL/min), when possible, and samples were collected.

Groundwater samples were placed into insulated coolers and maintained at temperatures between 2 and 6 degrees Celsius ( $^{\circ}\text{C}$ ), ( $4^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ). The coolers were sealed, and the contained samples were delivered to TestAmerica for fixed laboratory analysis. The coolers and samples were delivered to the laboratory under appropriate chain-of-custody procedures. Chain-of-custody forms are included in Appendix G.

All groundwater purged during monitoring well sampling was stored in containers within secondary containment. Purged water was later transferred to and treated by the RAPA treatment system. The following sections provide more detail on the performance and effectiveness sampling events.

#### **4.4.1 Extraction Well Sampling**

In accordance with the RAPA, field personnel collected groundwater samples on a quarterly basis from 81 extraction wells in November 2014 and February 2015 and from 79 extraction wells in May and August 2015. Two of the extraction wells (EW-2035 and EW-5002) could not be sampled in the May and August 2015 events due to conveyance line repairs, as described in the email from AECOM (on behalf of Lockheed Martin) to FDEP on May 15, 2015. Groundwater pumped from 30 of the on-Facility extraction wells was collected from the individual influent piping sample taps located inside the treatment building. Groundwater samples from four of the on-Facility extraction wells, 41 of the off-Facility vertical extraction wells, and the four off-Facility horizontal extraction trenches were collected utilizing sample ports located inside their respective extraction well vaults. TestAmerica analyzed these samples using USEPA Method 8260B for VOCs and USEPA Method 8260C SIM with heated purge for 1,4-D. Section 5.4.1 includes a discussion of the analytical results, which are also presented in Table 12.

Summarized below is the extraction well groundwater quality performance sampling schedule, as discussed above.

Date	Sampling Event	Test Method(s)
12/5/14	Extraction Well Sampling	USEPA 8260B, 8260C SIM
2/4/15	Extraction Well Sampling	
5/3/15	Extraction Well Sampling	
8/6/15	Extraction Well Sampling	

#### 4.4.2 Quarterly and Semi-Annual Effectiveness Monitoring

Quarterly and semi-annual effectiveness monitoring included collecting groundwater samples at 54 monitoring wells, as listed in Table 13. TestAmerica analyzed samples using USEPA Method 8260B for VOCs and USEPA Method 8260C SIM with heated purge for 1,4-D. Section 5.4.2 includes a description of the analytical results, which are presented in Table 14. This table also includes historical data dating back to 2009.

A summary of the groundwater quality sampling schedule discussed above is presented below.

Event	Effectiveness Monitoring Event Date
Quarter 4, Year 1	November 10 through November 14, 2014
Semi-Annual Sampling, Year 2	February 10 through February 13, 2015

#### 4.4.3 Annual Persulfate Compliance Monitoring

Annual persulfate compliance monitoring is being conducted as a result of testing performed during RAPA development and as required by 62-780.700(12) (g), F.A.C. In order to evaluate the effectiveness of in-situ chemical oxidation (ISCO) in reducing concentrations and mass of VOCs and 1,4-D in the shallow aquifer, Lockheed Martin proposed certain activities described in the *In-situ Pilot Study Work Plan* dated January 22, 2008 (ARCADIS, 2008). Following their comment letter on the proposed pilot testing, dated January 30, 2008, the Plan was approved by the FDEP in an April 14, 2008. The ISCO injections were implemented from April 15 to April 19, 2008. The post-injection persulfate pilot study groundwater monitoring began after ISCO

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injections were completed. Monitoring for persulfate pilot study parameters is associated solely with the ISCO pilot test conducted in the USAS. Although ISCO was not included in the final selected Site remediation design, the FDEP-approved In-Situ Pilot Study Work Plan calls for continued semi-annual, post-injection monitoring. The parameters that were monitored as part of the Plan included the Underground Injection Control parameters referenced in the *FDEP Klozur™ activated persulfate acceptance letter* (FDEP, 2005): sodium, sulfate, TDS, iron, and manganese. The frequency of post-injection monitoring (from semi-annual to annual), the number of monitoring wells (from twenty-two to eleven), and the parameters analyzed were revised as part of the 2014 RASR submittal, review and approval process. Monitoring is required until these analytes decrease to levels below GCTLs or baseline, whichever is higher, for two consecutive sampling events as presented in the 2014 RASR and subsequent approval letter.

On August 24 through August 25, 2015, annual persulfate compliance monitoring sampling was conducted at eleven monitoring wells detailed in Table 11. Monitoring well samples were analyzed by TestAmerica for one or more of the following; USEPA Method SM 2540C for TDS, USEPA Method 6010B for aluminum, arsenic, and iron, USEPA Method 300.0 for sulfate, and USEPA Method 6010B for manganese. Section 5.4.3 includes a discussion of the analytical results, which are presented in Table 15.

#### **4.4.4 Annual Effectiveness and Private Well Monitoring**

On August 10 through August 28, 2015, annual effectiveness sampling was conducted at 153 monitoring wells, five private wells, and six piezometers, as listed in accordance with the RAPA and detailed in Table 13. TestAmerica analyzed these samples using USEPA Method 8260B for VOCs and USEPA Method 8260C SIM with heated purge for 1,4-D. Section 5.4.4 includes a discussion of the analytical results of this sampling. The analytical data from the August 2015 annual sampling event are summarized in Table 14 and presented on Figures 4-1 through 4-46. The private monitoring well data are presented on Table 16 and presented on Figures 4-17 through 4-24, and Figures 4-40 through 4-46. Laboratory analytical and data validation reports are located in Appendix G and Appendix H, respectively.

# SYSTEM OPERATION, MAINTENANCE, AND MONITORING RESULTS

This section provides results from system operation, treatment and compliance, water level, effectiveness and persulfate, and wetlands monitoring. The section also includes a summary of waste management that occurred during the reporting period.

## 5.1 SYSTEM OPERATION

The total volume of groundwater pumped from extraction wells and horizontal trenches for the reporting period of September 1, 2014 through August 31, 2015 was approximately 80,636,200 gallons resulting in a total of 148,905,900 gallons of groundwater extracted and treated since initial system startup in November 2013. The treatment system was operational for 98.4% of the reporting period. The treatment system was able to process groundwater for 8,616.8 hours during the reporting period, with 125.7 hours of planned downtime and 17.5 hours of unplanned downtime. Treatment system runtime is presented in Table 2.

Per SWFWMD WUP No. 20 020198.000 (see Appendix I), Lockheed Martin is permitted to extract up to 410,600 gallons daily, averaged annually, from the network of extraction wells and trenches. The summary diagram provided below presents monthly influent flow totals, plus the daily maximum and average flows, as recorded automatically by the PLC during the reporting period, demonstrating compliance with the WUP pumping volume requirements.

SWFWMD District Identifications	DID 95	DID 95	DID 95
Month	Maximum Daily Influent Flow in Gallons	Average Daily Influent Flow in Gallons	Monthly Total Influent Flow in Gallons
September 2014	257,400	231,000	6,930,300
October 2014	254,700	228,000	7,067,100
November 2014	253,400	231,400	6,941,000
December 2014	241,800	226,700	7,027,600
January 2015	231,700	213,700	6,624,400
February 2015	246,700	214,100	5,995,800
March 2015	236,200	215,500	6,680,200
April 2015	237,800	217,500	6,523,900
May 2015	228,100	210,100	6,512,700
June 2015	232,000	218,200	6,546,600
July 2015	241,200	210,600	6,528,400
August 2015	246,000	234,100	7,258,200

Table 3 presents monthly flow volumes for individual extraction wells, as recorded automatically by the PLC. Table 9 presents the reporting period and cumulative groundwater volumes extracted, treated, and discharged, as recorded automatically by the PLC. Operators continue to operate and maintain the groundwater extraction and treatment system 24 hours per day, 7 days per week, to keep the system operating effectively and safely.

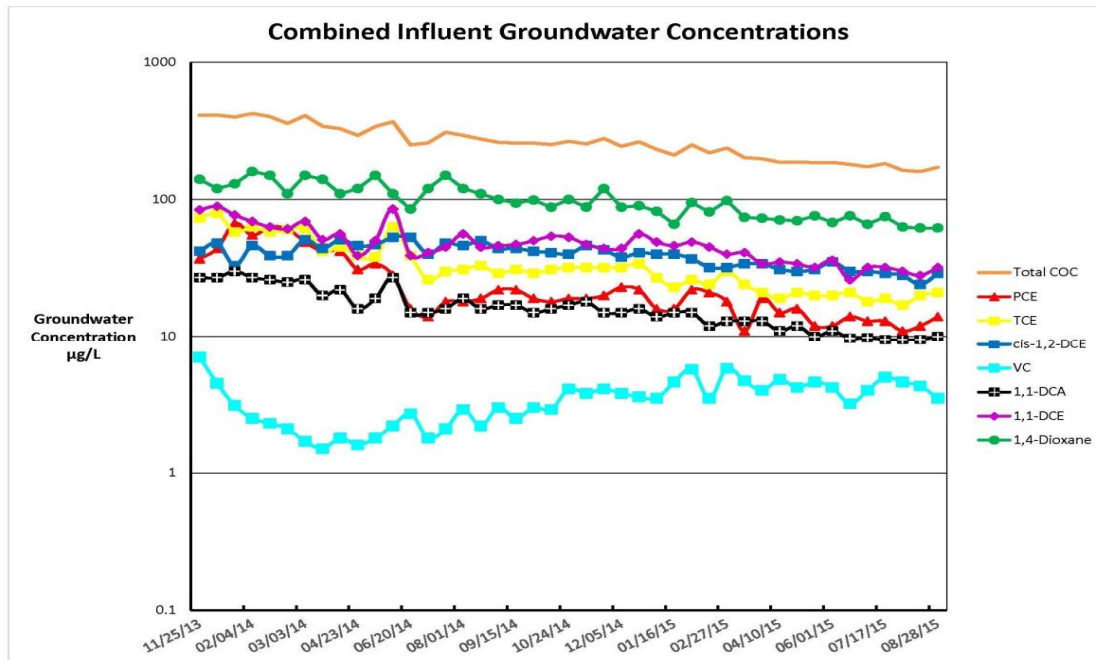
## 5.2 TREATMENT PROCESS AND COMPLIANCE MONITORING RESULTS

System process monitoring samples collected upstream and downstream of the AOPs and after the primary GAC vessel demonstrate that the AOP and GAC process units are effectively treating groundwater to meet limits set forth in the Manatee County Discharge Permit and RAPA Table 10-3 (see Table 6). The monthly average treatment system combined influent COC concentrations are presented below in micrograms per Liter ( $\mu\text{g/L}$ ).

Month	Influent Total COC Average Concentrations ( $\mu\text{g/L}$ )
September 2014	257.3
October 2014	258.0
November 2014	266.0
December 2014	253.2

Month	Influent Total COC Average Concentrations (µg/L)
January 2015	230.6
February 2015	227.7
March 2015	199.9
April 2015	187.0
May 2015	185.9
June 2015	179.6
July 2015	172.8
August 2015	165.7

The historic combined influent groundwater concentrations of individual COC concentrations are presented below.



These concentrations have maintained a downward trend throughout the reporting period. System combined influent samples were collected approximately twice per month as part of

process monitoring. In accordance with the schedule outlined in Table 12-1 of the RAPA (see Table 4), treatment system discharge samples were collected quarterly during the reporting period. To better predict carbon breakthrough, additional samples upstream and downstream of the AOPs and at the primary carbon vessel discharge sampling were collected as needed. Table 7 provides the treatment system process monitoring analytical results.

Permit requirements prescribed in the Manatee County Discharge Permit #IW-0025S (see Appendix B) were met during this reporting period. Appendix B also includes the required Manatee County Industrial Pretreatment Program Certification Statement. Tables 5, 7, and 8 present analytical results for water treatment samples collected during this reporting period. Laboratory analytical reports are presented in Appendix G and Data Validation Reports for this reporting period are presented in Appendix H. There were no laboratory analytical quality control issues that adversely affected data usability, as documented in the Data Validation Reports. Analytical results for all treated effluent samples collected during the reporting period indicate that COC and metals concentrations in the treated effluent were below limits set forth in the Discharge Permit. Treatment efficacy for VOCs and 1,4-dioxane removal was 100% and 94.5%, respectively, averaged over the reporting period.

Presented below are the Manatee County Discharge Permit limits and reporting period values for pH, temperature, and daily discharge flow.

<b>Manatee County Discharge Permit Compliance Parameters</b>		
<b>Monitored Parameter</b>	<b>Discharge Permit Limits</b>	<b>POTW Discharge Recorded Values</b>
pH Range	5 to 11.5 SU	5.4 to 7.8 SU
Maximum Temperature	104 Degrees F	103.7 Degrees F <sup>1</sup>
Maximum Daily POTW Effluent Flow	432,000 Gallons	254,900 Gallons
Average Daily POTW Effluent Flow	Report Only	203,400 Gallons

1. 103.7 degrees F temperature recorded during AOP testing when flows through the AOP were unusually reduced resulting in elevated effluent temperatures, and is not a typical discharge temperature



Presented below are the monthly pH range and maximum recorded discharge temperatures, demonstrating compliance with the Manatee County Discharge Permit.

Reporting Period	Minimum POTW Discharge pH	Maximum POTW Discharge pH	Maximum POTW Discharge Temp (° Fahrenheit)
September 2014	5.9	7.0	100.4
October 2014	5.9	7.0	103.7
November 2014	5.9	7.5	99.1
December 2014	6.0	7.3	98.3
January 2015	6.0	7.8	99.1
February 2015	6.0	7.3	100.3
March 2015	5.4	6.9	99.1
April 2015	6.1	7.2	98.6
May 2015	5.9	6.9	100.4
June 2015	6.0	7.2	100.1
July 2015	6.1	7.3	101.8
August 2015	5.8	7.0	101.0

The total volumes of treated groundwater discharged to the POTW during the reporting period, including maximum and average daily flows and water reuse conveyed to the RC-7002 infiltration gallery are presented below.

SWFWMD District Identifications	DID 97	DID 97	DID 97	DID 96
Month	Maximum Daily POTW Effluent Flow in Gallons	Average Daily POTW Effluent Flow in Gallons	Monthly Total POTW Effluent Flow in Gallons	Monthly Total Water Reuse in Gallons to RC-7002
September 2014	251,500	208,900	6,266,300	662,400
October 2014	254,900	224,200	6,949,500	120,200
November 2014	243,700	222,300	6,669,700	284,500
December 2014	234,100	214,400	6,647,300	390,600
January 2015	227,400	199,800	6,193,300	430,500
February 2015	245,100	205,000	5,739,900	278,400
March 2015	238,700	206,300	6,396,300	320,100
April 2015	218,200	194,200	5,827,100	733,900

SWFWMD District Identifications	DID 97	DID 97	DID 97	DID 96
Month	Maximum Daily POTW Effluent Flow in Gallons	Average Daily POTW Effluent Flow in Gallons	Monthly Total POTW Effluent Flow in Gallons	Monthly Total Water Reuse in Gallons to RC-7002
May 2015	207,700	184,800	5,730,000	822,700
June 2015	206,900	191,300	5,738,400	863,500
July 2015	229,100	177,900	5,516,300	1,061,400
August 2015	235,200	212,100	6,575,800	740,300

Table 9 provides additional information on volumes of groundwater extracted, treated and discharged via the POTW or through reuse/re-injection. The difference in the recorded values of the combined influent and POTW effluent flow totals is due primarily to discharge to infiltration gallery RC-7002. However, potable water used for general treatment plant cleaning, filter press cleaning, and carbon change-out also contributes to the difference in recorded flow totals observed. Potable water used during these activities flows to the plant sump and is processed and subsequently discharged with treated groundwater. This additional water volume is reflected in the POTW effluent flow total, but not in the combined influent flow total, because the potable water collected in the plant sump is not routed through the combined influent flow meter (FIT-100).

Discharge to infiltration gallery RC-7002 on the agricultural area to the southeast was initiated on July 9, 2014. This flow was routed through FIT-665 (the RC-7003 flow meter) due to damage to the RC-7002 flow meter that occurred in the off-Facility RC-7002 equipment vault that houses FIT-7002. Although this flow meter has since been repaired, the flow continues to be totalized by FIT-665.

RO system effluent sample results confirmed that the discharge to infiltration gallery RC-7002 met both the GCTL and surface water quality criteria, as specified in RAPA Table 10-3 (see Table 6). Discharge of RO system effluent to infiltration gallery RC-7002 on the agricultural area to the southeast adjacent to TW-6 began on July 9, 2014 and continued throughout the reporting period. A total of 6,708,500 gallons of RO system effluent was discharged to the RC-7002 infiltration gallery during the reporting period (see Table 9) at a time-weighted average flow rate of approximately 13 gallons per minute (gpm). No RO system effluent was discharged

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to infiltration galleries RC-7001 and RC-7003, or to re-injection wells RC-6001 through RC-6005, during the reporting period.

### **5.3 GROUNDWATER LEVEL MONITORING RESULTS**

Quarter 4, year 1 and semi-annual, year 2 gauging events were performed in November 2014 and February 2015, respectively. These were followed by a comprehensive water level event in August 2015, conducted as part of the annual groundwater sampling event to show groundwater elevations during pumping conditions.

The results of groundwater level monitoring conducted during this reporting period are presented in Table 10. This RASR provides groundwater elevation contour maps for the annual water level event for the USAS and potentiometric contour maps for the LSAS, AF Gravels, S&P Sands, Lower AF Sands, and Floridan Aquifer. Refer to Figures 3-1 through Figure 3-6.

An effort was made to incorporate groundwater elevation data from every monitoring well measured on the contoured maps. However, in some cases, not every data point could be contoured. Typically, this is due to monitoring wells of different hydrogeologic units being presented on a single figure. Data plotted on the map but not used in contouring are noted on the maps by an asterisk (\*). Extraction well groundwater elevation data were generally not used in contouring; however, based on professional judgment some extraction well data were used. Horizontal and vertical hydraulic gradients were calculated for each unit. Vertical gradients between vertically adjacent units were estimated by dividing the difference in the groundwater elevations between the two units by the distance between the bottoms of the screens for the wells in each of the units. These gradients are further discussed in the following sections.

#### **5.3.1 Quarterly and Semi-Annual Gauging Events**

The results of the quarterly and semi-annual gauging events performed in November 2014 and February 2015, respectively, are presented in Table 10.

#### **5.3.2 Annual Gauging Event**

The annual gauging event took place August 5 and August 6, 2015. Monitoring wells were opened and vented August 5, 2015 and water levels were allowed to stabilize for up to 24 hours.

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Monitoring wells were gauged on August 6, 2015 while under pumping conditions. During the gauging event all vertical and horizontal extraction wells were operating, with the exception of EW-2035 and EW-5002; the total combined flow into the treatment plant was approximately 170 gpm. The results of the August gauging event are presented in Figures 3-1 through 3-6.

USAS:

The groundwater elevations, contours, and flow directions in the USAS in August 2015 under the Facility and around the Site regionally shown are presented in Figure 3-1. Capture zones were approximated based on potentiometric contours and professional judgment. An estimated capture zone of approximately 8,318,391 ft<sup>2</sup> (191 acres) existed in August 2015 compared to the capture zone of approximately 7,211,126 ft<sup>2</sup> (165 acres) in August 2014 which is an increase of 16%. This increase in capture is due to the addition of piezometers at the Site which provided additional data, and system optimization. This overall increase in capture represents an increase in hydraulic containment of the COC plume. Water levels in the USAS ranged from 12.86 to 25.35 ft above msl, with an average water level of 21.18 for the August 2015 monitoring event. The August 2015 water level elevations have remained similar with those from the August 2014 monitoring event.

The horizontal component of groundwater flow near the Facility is radially inwards toward the Facility. The Facility lies within a groundwater depression with a horizontal hydraulic gradient of approximately 0.015 ft/foot. Immediately south of the Facility, groundwater flow diverges to the southwest toward the extraction trenches EW-2101 and EW-2102, located on the golf course, and to the east-southeast toward extraction trenches EW-2103 and EW-2104 located on the agricultural area to the southeast. From the Facility pond westward, groundwater generally flows to the west, toward the line of extraction wells located along 15th Street, west of the golf course, and converges at the ditch traversing along the south side of Tallevast Road. Groundwater flow northwest of the Facility is generally to the south and southwest toward the Pearce Canal, with a relatively flat horizontal gradient of 0.001 ft/foot. Outside of the cone of depression and the Facility boundary to the east, west, and south, groundwater generally flows radially away, with a gradient ranging from approximately 0.002 to 0.007 ft/foot.

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The vertical gradient in the USAS is downward toward the LSAS throughout the Site. Vertical gradients measured across the Site range from approximately 0.1 to 1.5 ft/foot, with an average downward vertical gradient from the USAS to the lower LSAS across the Site of 0.8 ft/foot. On the Facility, the average gradient is downward approximately 1.4 ft/foot. Vertical gradients outside the Facility are the lowest on the airport at 0.1 ft/foot, and highest south of the Facility, near EW-2102, at 0.9 ft/foot. While a downward gradient would seem to indicate vertical movement of groundwater from the upper to lower zone, under conditions where groundwater pumping is occurring in both zones, it can also indicate a lack of transmissivity between these zones and that an effective barrier to flow exists.

Lower Shallow Aquifer System (LSAS):

A relatively large cone of depression exists in the LSAS under the Facility extending to off-Facility areas in all directions, as shown in the August 2015 potentiometric contour map (Figure 3-2). An estimated capture zone of approximately 12,043,352 ft<sup>2</sup> (276 acres) existed in August 2015 compared to the August 2014 capture zone of approximately 10,873,514 ft<sup>2</sup> (250 acres) in August 2014 which is an increase of 11%. This increase in capture is due to potentiometric contours demonstrating capture further to the west than in August 2014. This increase in capture represents an overall increase in hydraulic containment of the COC plume. The capture zone presented on Figure 3-2 is somewhat smaller than the potentiometric contours would suggest; the smaller capture zone takes into account that the exact locations of groundwater divides are uncertain. Hydraulic highs in the LSAS exist to the south and northeast of the Facility.

Groundwater elevations measured in LSAS monitoring wells ranged from 0.95 to 24.66 ft above msl in August 2015. The average groundwater elevation was 10.66 ft above msl, which represents a slight increase (0.11 ft) from the August 2014 gauging event. The approximate hydraulic gradient for the LSAS potentiometric surface during the gauging event was between 0.001 and 0.03 ft/foot. The horizontal component of groundwater flow is generally radially inwards toward the Facility within the groundwater depression. In the furthest east portion of the Site (outside the groundwater depression), groundwater flows to the east with a horizontal hydraulic gradient of 0.002 ft/foot. Outside the depression, and to the northwest of the Facility, groundwater flows to the west northwest, with a gradient of approximately 0.002 ft/foot.

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The vertical gradient in the LSAS is downward, toward the AF Gravels, throughout the Site. The vertical gradients between the LSAS to the AF Gravels at the Facility and across the Site area range from approximately 0.03 to 0.31 ft/foot, with an average downward vertical gradient across the Site of approximately 0.13 ft/foot, which is consistent with August 2014 data. Vertical gradients are the lowest to the northwest of the Facility and highest on-Facility and to the south of the golf course.

AF Gravels:

A cone of depression in the AF Gravels is present under the Facility and extends throughout the Site in all directions, as depicted on Figure 3-3. An estimated capture zone of approximately 17,891,571 ft<sup>2</sup> (411 acres) existed in August 2015. This 2% decrease in area was similar to the capture zone of approximately 18,357,910.9ft<sup>2</sup> (421 acres) in August 2014.

Groundwater elevations ranged from 8.87 ft below msl to 13.28 ft above msl in August 2015. The average groundwater elevation was 4.17 ft above msl, representing a slight increase (0.65 ft) since the August 2014 gauging event. The hydraulic gradient for the AF Gravels potentiometric surface was approximately 0.015 ft/foot inside the depression and approximately 0.006 ft/foot outside the depression. The horizontal component of groundwater flow is radially inwards toward the Facility. Outside the depression, to the northwest of the Facility, groundwater flows to the northwest with a gradient of approximately 0.003 ft/foot. The vertical gradient between the AF Gravels and the S&P Sands is upward throughout most of the Site but downward west of the Facility, just north of the airport. The vertical gradient ranges from approximately 0.27 ft/foot (upward) to 0.006 ft/foot (downward) and averages approximately 0.12 ft/foot (upward) across the Site.

S&P Sands:

A cone of depression in the S&P Sands is present under the Facility and extends throughout the Site in all directions, as depicted on Figure 3-4. An estimated capture zone of approximately 15,137,932 ft<sup>2</sup> (347 acres) existed in August 2015 compared to the estimated capture zone of approximately 8,637,310 ft<sup>2</sup> (198 acres) in August 2014, which is an increase of 75%. This percentage increase is due to the difference between the estimated 2015 capture zone and a more

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conservative capture zone estimate in 2014. Potentiometric contours between the two years are similar. This August 2015 estimated capture zone represents a stable hydraulic containment of the COC plume.

As observed in the S&P Sands, groundwater in a small area northwest of the Facility, outside the pumping influence, flows to the northwest, beyond a concentric high around monitoring well MW-61. Hydraulic highs depicted on Figure 3-4 exist in the S&P Sands to the southwest and northeast of the Facility.

Groundwater elevations ranged from 4.58 ft below msl to 13.22 ft above msl in August 2015. The average groundwater elevation was 7.45 ft above msl, which represents an increase of 1.68 ft from the August 2014 gauging event. The S&P Sands potentiometric surface during the gauging event shows a groundwater depression surrounding the Facility with a hydraulic gradient of between 0.006 and 0.04 ft/foot. The horizontal component of groundwater flow is generally toward the Facility within the groundwater depression and the surrounding areas to the north, east and south of the Facility. Outside the depression, and to the northwest of the Facility, groundwater flows away from MW-61 and to the northwest, with a gradient of approximately 0.003 ft/foot. Outside the depression to the north, east, and south of the Facility the horizontal gradient is approximately 0.004 ft/foot. The vertical gradient in the S&P Sands to the Lower AF Sands is upward throughout the Site. The average vertical gradient between the S&P Sands to the Lower AF Sands at the Facility is approximately 0.04 ft/foot, and vertical gradients range from 0.007 to 0.06 ft/foot. Vertical gradients are the lowest to the west and north of the Facility and highest on Facility and immediately south of the Facility.

Lower AF Sands: Figure 3-5 shows the Lower AF Sands potentiometric surface in August 2015. Groundwater elevations ranged from 8.65 ft below msl to 14.69 ft above msl in August 2015. The average groundwater elevation was 12.58 ft above msl and remains relatively consistent with the August 2014 data. Monitoring data from this event indicate that groundwater flow is primarily westward, which is consistent with August 2014 data, and indicates that the RAPA system is not influencing this aquifer. The highest elevation in this aquifer zone is depicted as a concentric high around MW-192, located just west of Highway US-301 and south of Tallevast Road. The horizontal gradient is relatively flat on the east side of the Site with an average

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gradient of approximately 0.001 ft/foot. The horizontal gradient increases to approximately 0.002 ft/foot at the northwest corner of the Facility. The vertical gradient between the Lower AF Sands and the Floridan aquifer is upward throughout the Site. The average vertical gradient between the Lower AF Sands and the Floridan aquifer is approximately 0.05 ft/foot with the highest vertical gradient observed on the Facility at 0.07 ft/foot.

*Floridan:* Figure 3-6 shows the Floridan potentiometric surface in August 2015. Groundwater elevations ranged from 18.49 to 18.84 ft above msl in August 2015. The average groundwater elevation was 18.64 ft above msl, which represents an increase of approximately 2.28 ft from the August 2014 gauging event. Monitoring data from this event indicate that groundwater flow is primarily to the west southwest which is consistent with the August 2014 data and indicates the RAPA system is not influencing this aquifer. The horizontal gradient was flat at 0.0001 ft/foot in August 2015.

### **5.3.3 Long Term Water Level Monitoring**

The long-term water level monitoring program provided detailed tracking of the hydraulic interaction between water-bearing zones over time. In general, the long-term water level data confirmed the assessment of gradients in Section 5.3.2. In addition, the continuous monitoring of wells near the edges of the Site provided information on the extent of RAPA system effects on each water-bearing zone. The results are discussed in more detail in Appendix E.

## **5.4 GROUNDWATER QUALITY MONITORING RESULTS**

Groundwater COC at the Site include 1,4-D; tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (cis-1,2-DCE); 1,1-dichloroethene (1,1-DCE); and 1,1-DCA. Concentrations of methylene chloride, dibromochloromethane, bromodichloro-methane, and vinyl chloride (VC) detected in groundwater samples in March/April 2009 exceeded the GCTLs; thus, these compounds were added as Site COC in the 2009 RAPA. Methylene chloride, dibromochloromethane, and bromodichloromethane are not attributable to discharges from the Facility, and also were not detected at concentrations higher than GCTLs in the August 2015 event. Thus, these three COC are not discussed further or shown on figures; however, the analytical results for these COC are provided in the associated tables.



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The applicable FDEP cleanup criteria for each COC are listed below.

<b>COC</b>	<b>GCTL (µg/L) (62-777 F.A.C.)</b>
1,4-D	3.2
TCE	3
PCE	3
Cis-1,2-DCE	70
1,1-DCE	7
1,1-DCA	70
VC	1

#### **5.4.1 Extraction Well Sampling**

Extraction well sampling took place weekly for the first month following RAPA treatment system initiation, monthly thereafter for two months, followed by quarterly sampling beginning in May 2014. Recent extraction well sampling took place August 6 and 7, 2015 and included 75 extraction wells and four extraction trenches, as detailed in Table 11. Laboratory Analytical Reports are presented in Appendix G and Data Validation Reports for this reporting period are presented in Appendix H. No laboratory analytical quality control issues that adversely affected data usability were found, as documented in the associated Data Validation Reports.

The results from the August 2015 sampling event indicate that COC concentrations were at or below GCTLs at 16 USAS extraction wells (EW-2001, EW-2002, EW-2005, EW-2007, EW-2008, EW-2009, EW-2010, EW-2012, EW-2013, EW-2017, EW-2030, EW-2031, EW-2034, EW-2036, EW-2037, and EW-2101). Results indicate that COC concentrations for the remaining USAS extraction wells have declined since November 2013.

In the LSAS, consistent decreasing COC concentrations from November 2013 to August 2015 were observed in all of the extraction wells, with the exception of EW3009, EW3016, EW3021, EW3022 and EW3026, which currently exhibit overall increasing trends in COC concentrations. COC concentrations of one or more parent compounds (PCE, TCE, and 1,4-D) increased from November 2013 to August 2015 in seven of the extraction wells (EW-3009, EW-3012, EW-3013, EW-3016, EW-3021, EW-3022, and EW-3026). Concentrations of one or more daughter products (1,1-DCE, cis-1,2-DCE, and VC) show increasing trends from November 2013 to

August 2015 in six extraction wells (EW-3004, EW-3008, EW-3009, EW-3022, EW-3026, and EW-3027), providing potential evidence of reductive dechlorination.

In the AF Gravels, laboratory analytical data indicate an increasing trend in COC concentrations for EW-4009 and stable COC concentrations for EW-4007 between November 2013 and August 2015. Declining COC concentrations are observed in the nine other AF Gravel extraction wells.

Two extraction wells are present in the S&P Sands (EW-5001 and EW-5002). TCE and 1,4-D concentrations have increased in EW-5001 from concentrations below detection limits in November 2013, to concentrations exceeding GCTLs in August 2015 (6.2 µg/L and 5.5 µg/L, respectively). All other analyte concentrations have remained below GCTLs since November 2013. Extraction well EW-5002 could not be sampled in May or August 2015; however, COC concentrations have remained below detection limits in EW-5002 from November 2013 through February 2015.

As evident by the results discussed above, the treatment system actively extracted and treated the groundwater COC plume over the previous reporting period. Extraction well analytical results are provided in Table 12. The table also includes total volatile organic compound estimates for each well.

Summarized below is the highest concentration for each Site COC measured during the August 2015 sampling event.

Site COC	Extraction Well/Aquifer	Highest Observed Result (µg/L)
1,4-D	EW-3017 / LSAS	1,500
TCE	EW-3009 / LSAS	200
PCE	EW-2028 and EW-3013 / USAS and LSAS	130
cis-1,2-DCE	EW-4003 / AF Gravels	1,300
1,1-DCE	EW-3012 / LSAS	690
1,1-DCA	EW-3017 / LSAS	200
VC	EW-4003 / AF Gravels	270

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## 5.4.2 Quarterly and Semi-Annual Effectiveness Monitoring

The results from quarterly and semi-annual groundwater sampling at 54 monitoring wells are presented in Table 14. Laboratory Analytical Reports are presented in Appendix G and Data Validation Reports for this reporting period are presented in Appendix H. Groundwater sampling logs are presented in Appendix F. There were no laboratory analytical quality control issues that adversely affected data usability, as documented in the Data Validation Reports. Further discussion of contaminant concentrations is discussed in Sections 5.4.4.

## 5.4.3 Annual Persulfate Compliance Monitoring

Annual persulfate compliance sampling was conducted at eleven monitoring wells on August 24 and August 25, 2015, at the locations detailed in Table 11. Groundwater samples from the annual sampling event were collected and analyzed for the persulfate pilot study parameters, as described in Section 4.4.3. The results from the annual persulfate compliance monitoring at eleven monitoring wells are presented in Table 15. Laboratory Analytical Reports are presented in Appendix G, and Data Validation Reports for this monitoring period are presented in Appendix H. Groundwater sampling logs are presented in Appendix F. There were no laboratory analytical quality control issues that adversely affected data usability, as documented in the Data Validation Reports.

Prior to the persulfate pilot study, baseline sampling was conducted on March 11, 2008 on the monitor wells in Table 15. Concentrations of persulfate pilot study parameters in the USAS and LSAS monitoring wells and extraction well EW-108, which is just outside and downgradient of the ISCO pilot study area, have generally showed a decreasing trend since the baseline sampling event. The concentration of aluminum in MW-38 (downgradient USAS monitor well from the study area) has not increased since the ISCO injection, which indicates that the radius of influence (ROI) and any groundwater quality change due to metals liberation from the persulfate injection does not extend beyond a 10-foot ROI from the injection locations.

Concentrations of aluminum, sulfate, manganese, iron and TDS exceed their GCTLs in one or more monitoring wells. As noted in the approved 2014 RASR, monitoring is required until these analytes decrease to levels below GCTLs or baseline, whichever is higher, for two consecutive

sampling events. Currently there are two monitoring wells (CO-C1D and MW-38) that meet the above requirements for discontinuation of monitoring. FDEP requested that monitor well MW-43 be sampled for manganese in the 2014 RASR comment letter, and will continue to be sampled until the above conditions are satisfied.

Presented below are the analytes detected above GCTLs or above baseline in the August 2015 persulfate sampling event.

<b>Wells Currently Sampled</b>	<b>Analyte Above GCTLs or Baseline (Whichever is Higher) for the Last Two Events</b>
CO-A1D	Aluminum
CO-C1D	None
EW-108	Sulfate, Arsenic, Iron, TDS
MW-37	Iron, Manganese
MW-38	None
MW-39	Aluminum, TDS
MW-42	TDS
MW-43	None
MW-72	Aluminum
MW-76	Sulfate, Iron
MW-80	Sulfate, Iron, Manganese, TDS

#### **5.4.4 Annual Effectiveness and Private Well Monitoring**

As part of the annual effectiveness monitoring, on August 6, 2016, total depths were measured in all accessible wells in the annual sampling program. These measurements are used to determine if any monitoring wells require redevelopment to ensure continued function. The monitoring well network did not require any redevelopment to address siltation during this reporting period.

The annual effectiveness and private well monitoring sampling event took place from August 6 through August 28, 2015, and included 164 monitoring wells, five private wells, and six piezometers (see Table 13). This sampling event is the second such annual sampling event conducted since completion of the RAPA treatment system construction and system startup. Laboratory Analytical Reports are presented in Appendix G, and Data Validation Reports for this

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monitoring period are presented in Appendix H. There were no laboratory analytical quality control issues that adversely affected data usability, as documented in the Data Validation Reports. A summary of analytical results is presented in Table 14. Figures 4-1 through 4-46 present 1,4-D, TCE, PCE, cis-1,2-DCE, 1,1-DCE, 1,1-DCA, and VC concentrations in the USAS, LSAS, AF Gravels, S&P Sands, Lower AF Sands, and Floridan Aquifer.

Table 14 provides historical analytical data from 2009 to the present. Observed historical variations in plume size for individual COC concentrations in the various aquifers from August 2014 and August 2015 are discussed in Section 5.4.4.1 through 5.4.4.6 below.

The following information is provided to aid discussion of the annual sampling results:

- The first monitoring wells at the Site were installed and sampled in 2001, and numerous additional wells have been installed and sampled since. Generally, the higher the well identification number, the more recently the well was installed and the fewer times it has been sampled, potentially limiting the historical comparisons that can be made in these cases.
- In November 2014 monitoring wells MW-183 through MW-187 were properly abandoned due to the addition of a southbound turn lane along Tallevast Road at U.S. Highway 301 to accommodate the new Manatee County Transit Facility located at 2411 Tallevast Rd.
- In November 2014 thirteen monitoring wells (MW-213 through MW-217, MW-234 through MW-238, MW-249, MW-250, and MW-255) were protected by adding 12- inch diameter schedule 40 PVC casings to a depth of 3 ft bls and extending 7 ft above grade due to Manatee County's Transit Facility located at 2411 Tallevast Rd. These wells are currently unavailable for monitoring because they are enclosed by protective casings and as a result were not sampled during the 2015 annual sampling event. This RASR estimates that concentrations in these protected monitoring wells are approximately the same as those reported in the 2014 RASR. Upon completion of the planned development, the wells will be reinstated into the monitoring programs.

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- The Private well located at 2411 Tallevast Road could not be sampled during the August 2015 event because of access restrictions due to construction activities at the county's Transit Facility site.
  - In 2012 MW-11 was abandoned due to its location within the footprint of the RAPA treatment building. A recommendation was made to replace MW-11 in the 2014 RASR. Replacement well MW-11R was installed on January 30, 2015 and placed into the appropriate monitoring programs. The well construction log for MW-11R is provided in Appendix D.
  - COC contours in figures for the August 2015 sampling event were developed using the methods identified in the 2014 RASR and include contouring intervals of the GCTL, 10 times the GCTL, and the natural attenuation default concentration (which is 10 times or 100 times the GCTL, depending on the compound), where applicable.
  - Extraction well data were generally not used in preparing the contours for the COC maps; however, because the extraction wells were sampled during the August 2015 event, the data are posted on the COC maps for comparison purposes. These data were considered in the final contours, where appropriate.
  - As is typical in groundwater plumes and as detailed below, COC concentrations in groundwater samples from specific wells have decreased in some instances and increased in others due to pumping and groundwater movement between sampling events. The overall distribution of COC within monitoring wells in August 2015 was generally consistent with the distribution during the August 2014 monitoring event.

COC concentrations and distributions in 2015 will be compared to the COC concentrations and distributions in 2014 in the following sections.

#### **5.4.4.1 COC Distribution in the USAS**

The COC distribution of individual compounds in the USAS is shown in Figures 4-1 through 4-7. The following discussion includes observed historical variations in plume size for individual COC concentrations in the USAS.

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- 1,4-D – The distribution and concentrations of 1,4-D in the USAS are shown on Figure 4-1. The northwest, east, and southwest areas remained disconnected in 2015. However, the northwest plume observed in August 2014 is now evident as two separate areas, one to the northwest of the Facility and one small area on the eastern portion of the Facility, which extends to the north.
  - TCE – The distribution and concentrations of TCE in the USAS are shown on Figure 4-2. The areas of TCE concentrations exceeding the GCTL in August 2015 are consistent with the data presented in August 2014.
  - PCE – The distribution and concentrations of PCE in the USAS are shown on Figure 4-3. The area of PCE concentrations exceeding the GCTL in August 2015 is consistent with the area depicted in August 2014, and is shown on Figure 4-3 as three separate areas located on the Facility, to the south of the Facility, and to the east of the Facility.
  - Cis-1,2-DCE – The distribution and concentrations of cis-1,2-DCE in the USAS are shown on Figure 4-4. In August 2015 there were no concentrations of cis-1,2-DCE detected in the USAS that exceeded the GCTL of 70 µg/L, which is consistent with the August 2014 data.
  - 1,1-DCE – The distribution and concentrations of 1,1-DCE in the USAS are shown on Figure 4-5. In the August 2015 the detection of 1,1-DCE concentrations exceeding the GCTL of 7 µg/L was limited to two monitoring wells (MW-27 and MW104) located southwest of the Facility, which is consistent with historical results. The area of 1,1-DCE concentrations exceeding the GCTL is depicted on Figure 4-5 as four separate areas, which takes into consideration concentrations of 1,1-DCE in extraction wells sampled in August 2015.
  - 1,1-DCA – The distribution and concentrations of 1,1-DCA in the USAS are shown on Figure 4-6. The detection of 1,1-DCA concentrations exceeding the GCTL of 70 µg/L identified in August 2015 is limited to one off-Facility monitoring well (MW-27) located to the east of the Facility, which is consistent with historical results.

- VC – The distribution and concentrations of VC in the USAS are shown on Figure 4-7. VC was only detected at concentrations that were below the GCTL of 1 µg/L in the USAS during the August 2015 event. VC is a known biodegradation byproduct of chlorinated compounds such as TCE and PCE. The low concentrations that sometimes occur within the Site are likely due to the biodegradation of Site COC.

Average concentrations for each COC using the laboratory analytical data from the August 2014 and August 2015 sampling events are summarized below. The results indicate an overall decline in average COC concentrations in the USAS.

<b>COC</b>	<b>Concentration (August 2014) (µg/L)</b>	<b>Concentration (August 2015) (µg/L)</b>	<b>Percent Change (USAS)</b>
1,4-D	15.6	10.8	-31%
TCE	6.6	4.9	-26%
PCE	21.0	19.1	-9%
cis-1,2-DCE	1.3	0.7	-47%
1,1-DCE	4.1	3.3	-20%
1,1-DCA	2.5	2.3	-8%
VC	0.03	0.00	-100%

The composite COC distribution is presented in Figure 4-8. The area of COC concentrations exceeding GCTLs in the USAS identified in August 2015 was 3,298,411 ft<sup>2</sup> (76 acres) compared to 3,900,340 ft<sup>2</sup> (89 acres) in August 2014. The treatment system continued to actively extract and treat the groundwater COC plume over the previous reporting period, as documented by decreasing COC concentrations in the USAS. Appendix J includes VOC concentration versus time charts for a group of select USAS monitoring wells [MW-27, MW-35, MW-67, and MW-254 (MW-BT-1)].



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#### 5.4.4.2 COC Distribution in the LSAS

The COC distribution of individual compounds in the LSAS is shown on Figures 4-9 through 4-15. The following discussion includes observed historical variations in plume size for individual COC concentrations.

- 1,4-D – The distribution and concentrations of 1,4-D in the LSAS are shown on Figure 4-9. The horizontal extent of the 1,4-D plume in August 2015 is consistent with that of August 2014.
- TCE – The distribution and concentrations of TCE in the LSAS are shown on Figure 4-10. TCE concentrations exceeding GCTLs are present over most of the Facility area and extend to the northeast and southwest, which is consistent with August 2014.
- PCE – The August 2014 distribution of PCE in the LSAS is shown on Figure 4-11. Concentrations of PCE exceeding the GCTL of 3 µg/L are present primarily beneath the Facility and to the south and southwest of the Facility, under the golf course.
- Cis-1,2-DCE – The distribution of cis-1,2-DCE in the LSAS is shown on Figure 4-12 and In the August 2015 cis-1,2-DCE concentrations exceeding the GCTL were limited to one on-Facility monitoring well and one piezometer (MW-37 and PZ-LSAS-4).
- 1,1-DCE – The distribution and concentrations of 1,1-DCE in the LSAS are shown on Figure 4-13.
- 1,1-DCA – The distribution and concentrations of 1,1-DCA in the LSAS are shown on Figure 4-14. In August 2015 the area of 1,1-DCA concentrations exceeding the GCTL is depicted as two separate areas located south of the Facility and southwest of the Facility on the golf course. The small 1,1-DCA contaminant plume present around on-Facility well EW-3009 in August 2014 was not present in August 2015. No 1,1-DCA was detected at any monitoring wells in excess of the GCTL in August 2015; therefore, plume depictions are based solely on the elevated concentrations detected at extraction wells.

- VC – The distribution and concentrations of VC in the LSAS are shown on Figure 4-15. VC was detected at a concentration greater than the GCTL at only one LSAS monitoring well in August 2015. The distribution and concentrations of VC are depicted as three areas on Figure 4-15 after considering August 2015 extraction well analytical data in addition to the monitoring well data.

Average concentrations for each COC using the laboratory analytical data from the August 2014 and August 2015 sampling events are summarized below. The results indicate an overall decline in average COC concentrations in the LSAS.

<b>COC</b>	<b>Concentration (August 2014) (µg/L)</b>	<b>Concentration (August 2015) (µg/L)</b>	<b>Percent Change (LSAS)</b>
1,4-D	50.1	37.4	-25%
TCE	176.0	161.6	-8%
PCE	4.1	7.4	80%
Cis-1,2-DCE	26.7	15.0	-44%
1,1-DCE	14.8	11.6	-22%
1,1-DCA	8.0	7.8	-3%
VC	0.04	0.04	0%

The composite COC distribution is presented in Figure 4-16. The area of COC concentrations exceeding GCTLs in the LSAS identified in August 2015 was 4,037,299 ft<sup>2</sup> (93 acres) compared to 4,206,721 ft<sup>2</sup> (97 acres) in August 2014. The treatment system continued to actively extract and treat the groundwater COC plume over the previous reporting period, as documented by decreasing COC concentrations in the LSAS. Appendix J includes VOC Concentration versus Time Charts for a group of select LSAS monitoring wells (MW-41, MW-77, MW-81, MW-86R, MW-87, MW-98, MW-101, and PZ-LSAS-4).

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#### 5.4.4.3 COC Distribution in the AF Gravels

The COC distribution of individual compounds in the AF Gravels is shown on Figures 4-17 through 4-24. Discussion of observed historical variations in plume size for individual COC concentrations in the AF Gravels is summarized below.

- 1,4-D – The distribution and concentrations of 1,4-D in the AF Gravels are shown on Figure 4-17. The area of 1,4-D concentrations exceeding the GCTL consists of two separate areas. One area is located around the Facility immediately to the east and south, and the other area is located further to the east of the Facility.
- TCE – The distribution and concentrations of TCE in the AF Gravels are shown on Figure 4-18. The small, localized plume present to the northeast of the Facility in August 2014 was not evident in August 2015.
- PCE – The concentrations of PCE in the AF Gravels are shown on Figure 4-19. PCE was detected at concentrations below the GCTL at wells sampled during the August 2015 sampling event. These results are consistent with those of August 2014.
- Cis-1,2-DCE – The distribution and concentrations of cis-1,2-DCE in the AF Gravels are shown on Figure 4-20. The area of cis-1,2-DCE exceeding the GCTL is depicted on Figure 4-20 as one plume around the northwest corner of the Facility.
- 1,1-DCE – The distribution and concentrations of 1,1-DCE in the AF Gravels are shown on Figure 4-21.
- 1,1-DCA – The concentrations of 1,1-DCA in the AF Gravels are shown on Figure 4-22. Results from the August 2015 sampling event indicate that 1,1-DCA concentrations at the Site were less than the GCTL, consistent with the August 2014 results.
- VC – The distribution and concentrations of VC in the AF Gravels are shown on Figure 4-23. VC concentrations detected greater than the GCTL were limited to three on-Facility monitoring wells (EW-UAFG-1, IWI-1, MW-127) during the August 2015 event. The

extent of the VC boundary exceeding the GCTL in August 2015 is consistent with that of August 2014.

Average concentrations for each COC using the laboratory analytical data from the August 2014 and August 2015 sampling events are summarized below and indicate an overall increase in average COC concentrations in the AF Gravels. However, the average concentration of parent compound TCE decreases by 53% between August 2014 and August 2015, while COC concentration increases are observed in daughter products indicating evidence of reductive dechlorination.

<b>COC</b>	<b>Concentration (August 2014) (µg/L)</b>	<b>Concentration (August 2015) (µg/L)</b>	<b>Percent Change (AF Gravels)</b>
1,4-D	23.9	30.8	29%
TCE	37.1	17.5	-53%
PCE	0	0.02	-
Cis-1,2-DCE	130.4	159.2	22%
1,1-DCE	14.6	16.3	12%
1,1-DCA	3.5	4.4	26%
VC	13.2	17.8	35%

The composite COC distribution is presented in Figure 4-25. The area of COC concentrations exceeding GCTLs in the AF Gravels identified in August 2015 was 2,852,924 ft<sup>2</sup> (66 acres) compared to 3,044,205 ft<sup>2</sup> (70 acres) in August 2014. The treatment system continued to actively extract and treat the groundwater COC plume over the previous reporting period, as observed in decrease in TCE in the AF Gravels. Appendix J includes VOC Concentration versus Time Charts for a group of select AF Gravels monitoring wells (MW-127, MW-130, MW-134, MW-253, and IWI-1).

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#### 5.4.4.4 COC Distributions in the S&P Sands

The COC distribution of individual compounds in the S&P Sands is shown on Figures 4-25 through 4-31. Discussion of observed historical variations in plume size for individual COC concentrations in the S&P Sands is summarized below.

- 1,4-D – The distribution and concentrations of 1,4-D in the S&P Sands are shown on Figure 4-25. 1,4-D detected at concentrations greater than the GCTL in August 2015 was limited to two on-Facility monitoring wells (IWI-2 and MW-128) and one off-Facility monitoring well (MW-21). Concentrations of 1,4-D were not detected above the GCTL at any of the S&P Sands wells in August 2014. However, concentrations of 1,4-D have historically fluctuated. The 1,4-D contaminant plume depicted in August 2014 was based on extraction well analytical data.
- TCE – The distribution and concentrations of TCE in the S&P Sands are shown on Figure 4-26. TCE was detected at one on-Facility well (IWI-2) at a concentration greater than the GCTL of 3 µg/L in August 2015.
- PCE – The distribution and concentrations of PCE in the S&P Sands are shown on Figure 4-27. No PCE was detected at concentrations greater than the GCTL in August 2015. PCE was detected at one well (MW-54) at a concentration greater than the GCTL in August 2014.
- Cis-1,2-DCE – The cis-1,2-DCE results in the S&P Sands are shown on Figure 4-28. No cis-1,2-DCE was detected at concentrations greater than the GCTL of 70 µg/L in monitoring wells in August 2015, which is consistent with the August 2014 sampling event. The increase in concentration of cis-1,2-DCE between August 2015 and August 2014 may indicate reductive dechlorination.
- 1,1-DCE – The 1,1-DCE results in the S&P Sands are shown on Figure 4-29. 1,1-DCE was detected at one on-Facility monitoring well (IWI-2) at a concentration greater than the GCTL of 7 µg/L in August 2015. No 1,1-DCE was detected at concentrations greater

than the GCTL in the groundwater in August 2014. The increase in concentration of 1,1-DCE between August 2015 and August 2014 may indicate reductive dechlorination.

- 1,1-DCA – The 1,1-DCA results in the S&P Sands are shown on Figure 4-30. 1,1-DCA concentrations were below the GCTL of 70 µg/L at all monitoring wells in August 2015, which is consistent with the August 2014 results.
- VC – The VC results in the S&P Sands are shown on Figure 4-31. VC was detected at a concentration greater than the GCTL at only one monitoring well (IWI-2) in August 2015 event, which is consistent with the August 2014 results.

Average concentrations for each COC using the laboratory analytical data from the August 2014 and August 2015 sampling events are summarized below and indicate an overall increase in average COC concentrations in the S&P Sands.

<b>COC</b>	<b>Concentration (August 2014) (µg/L)</b>	<b>Concentration (August 2015) (µg/L)</b>	<b>Percent Change (S&amp;P Sands)</b>
1,4-D	0.3	5.9	1,866%
TCE	0.4	2.6	550%
PCE	0.3	0	-100%
Cis-1,2-DCE	0.4	3.2	700%
1,1-DCE	0.2	1.3	550%
1,1-DCA	0.1	0.6	500%
VC	0.3	0.2	-33%

The composite COC distribution is presented in Figure 4-32. The area of COC concentrations exceeding GCTLs in the S&P Sands identified in August 2015 was 199,480 ft<sup>2</sup> (5 acres) compared to 149,064 ft<sup>2</sup> (3 acres) in August 2014. An increase in COC concentration is observed in the S&P Sands, however, this increase is limited to two on-Facility monitoring wells (IWI-2 and MW-128) and one off-Facility monitoring well (MW-21). Concentrations of COC in IWI-2 and MW-128 have historically fluctuated. Appendix J includes VOC Concentration versus Time Charts for a group of select S&P Sands monitoring wells (IWI-2 and MW-128).

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#### **5.4.4.5 COC Distribution in the Lower AF Sands and Floridan Aquifer System**

No COC were detected at concentrations greater than GCTLs in either the Lower AF Sands or FAS, as shown on Figures 4-33 through 4-39 and Figures 4-40 through 4-46, respectively. These results are consistent with historical and 2014 data.

#### **5.4.4.6 Additional Volatile Organic Compounds**

In addition to the COC described above, data from laboratory analyses were reviewed to determine if concentrations of any additional reported compounds from groundwater samples exceeded GCTL limits. Concentrations of bromodichloromethane, dibromochloromethane, and methylene chloride were specifically reviewed because these compounds were detected at concentrations greater than GCTLs in March/April 2009. No bromodichloromethane, dibromochloromethane, or methylene chloride were detected in the wells sampled during the August 2015 event. Benzene was detected in MW-23 (S&P Sands) in August 2014 at 2.8 µg/L, in excess of the GCTL of 1 µg/L. This is currently a one-time detection of benzene in MW-23 in excess of the GCTL. Benzene was not detected in MW-23 in August 2015. Toluene was also detected in MW-23 in August 2014 (1.4 µg/L) which is below the GCTL of 40 µg/L. Toluene was not detected in August 2015. Benzene and toluene are not suspected of being Site-related COC because petroleum compounds have not previously been detected at the Site.

### **5.5 CONTAMINANTS OF CONCERN MASS REMOVAL**

The mass of COC (PCE, TCE, cis-1,2-DCE, VC, 1,4-D, 1,1-DCA, and 1,1-DCE) removed during the reporting period is estimated to be approximately 145 pounds, based on the estimate that the average combined influent COC concentrations for each month are representative of overall system influent groundwater COC concentrations. The mass is calculated using the average of two (if available) groundwater combined influent sample results per month (presented in Table 8) and the monthly combined influent flow totals, which are presented in Section 5.1. The calculations used to estimate this COC removal rate are shown in Table 17. Mass removal rates averaged approximately 12 pounds per month over this reporting period compared to 20 pounds per month over the previous reporting period. Mass removal rates are generally highest at the initiation of a groundwater extraction remediation strategy, when COC in the most

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transmissive zones are more rapidly removed. As anticipated, mass removal rate will decrease over time.

## **5.6 WETLANDS MONITORING PROGRAM**

The previous annual monitoring event performed in June 2014 marked the first monitoring event conducted during RAPA operations. Results of the previous monitoring event when compared to baseline data indicated that all of the TWs and RWs, except TW-6, showed evidence of normal water level fluctuations in response to a normal seasonal rainfall distribution for the region. Initiation of the RAPA pumping system in the southeast agricultural area that initially resulted in decreased water levels observed in TW-6. In response, the infiltration gallery (RC-7002) located south and southeast of TW-6 was placed into operation in July 2014 and has remained operational to date.

The June 2015 annual wetlands monitoring event marked the second monitoring event conducted during RAPA operations. Precipitation in the quarter preceding the June 2015 event was slightly less than that for the quarter preceding the 2014 event. Precipitation for the 12 months preceding the 2015 monitoring event was approximately 41 inches, which is below average. The TWs and RWs showed evidence of normal water level fluctuations in response to a normal seasonal rainfall distribution for the region when compared to baseline information. Wetland vegetation continues to be similar to that recorded in the baseline monitoring reports. Groundwater elevations at TW-6 during the 2015 monitoring event appear to have been higher than those during the 2014 monitoring event, indicating that RC-7002 is augmenting groundwater recharge and effectively buffering TW-6 from declines attributable to operation of the RAPA system. Results of these monitoring activities are provided in the Wetlands Monitoring Report July 2014 through June 2015 (AECOM, 2015; referenced herein as the Annual Wetlands Monitoring Report) is provided in Appendix K. This report was submitted to the FDEP and the SWFWMD on August 27, 2015 and was subsequently approved by the SWFWMD on September 1, 2015. The FDEP responded with a comment letter dated September 14, 2015 that provided observational comments that concluded the RAPA system has not had a measurable effect on the target wetlands during operation.



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The wetland telemetry system installed in June 2014 continues to operate normally, allowing quick access to water level instrumentation to determine status and functionality. Data provided by the telemetry system continues to be used for continuous RAPA system optimization; specifically for monitoring and adjusting groundwater extraction and recharge in the vicinity of TW-6.

## **5.7 WASTE MANAGEMENT**

Approximately 74,400 pounds of non-hazardous dewatered filter cake solids were removed and transported to the Clark Environmental landfill in Mulberry, Florida during the reporting period. Solids are removed through primary settling tanks, ultra-filters, and media filter backwashing and subsequently pumped to the solids thickening tank, settled, and then removed through the operation of the filter press. One filter press run of forty plates generates approximately 1,600 pounds, or four drums, of dewatered solids. Transportation and disposal of the dewatered solids is contracted through Southern Waste Services, Inc. The non-hazardous cake is transported to the landfill. See Appendix L for laboratory analytical results for the dewatered solids waste characterization and for landfill waste acceptance letters. See Appendix M for the dewatered solids non-hazardous waste manifests.

As a polishing step designed primarily for the removal of 1,1-DCA, the GAC becomes saturated with organic compounds and requires periodic replacement. During each GAC replacement event, approximately 10,000 pounds of non-hazardous spent carbon is removed, stored in lined and covered dumpsters, and transported to the landfill for disposal. Approximately 40,000 pounds of spent carbon were removed and transported by Adler Tank to the Waste Management landfill in Okeechobee, Florida for disposal during the reporting period. See Appendix L for the spent carbon waste characterization laboratory analytical results and landfill waste acceptance letters. See Appendix M for spent carbon non-hazardous waste manifests.

# FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

Lockheed Martin constructed and has operated the groundwater extraction and treatment system per the approved OMM Manual, the 2009 RAPA, and the 2012 FDEP RAPA Approval Order for the Site. The reporting period for this report covers operation from September 1, 2014 through August 31, 2015. The groundwater extraction and treatment system is meeting the objectives described in Section 1.2, which include the following:

- Reduce the potential for human exposure to COC concentrations in groundwater;
- Hydraulically control the groundwater exhibiting the COC concentrations;
- Actively extract and treat the groundwater COC plume until concentrations are below GCTLs;
- Reduce the potential for exposure to COC concentrations present in the soil at the Facility; and
- Minimize disturbance to the community and natural resources.

The following sections provide findings, conclusions, and recommendations for continued operations based on evaluation of the data and observations gathered during the current reporting period.

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## 6.1 PROCESS PERFORMANCE AND COMPLIANCE MONITORING

Based on the data presented in this report, Lockheed Martin provides the following findings, conclusions, and recommendations for the RAPA treatment system:

- A total of approximately 80,636,200 gallons of groundwater was successfully extracted, treated, and discharged during the reporting period, bringing the total cumulative volume of groundwater extracted and treated since initial startup in November 2013 to 148,905,900 gallons.
- The treatment system was operational 98.4% of the reporting period.
- The treatment system was successful in achieving treatment criteria of the MCUO Discharge Permit during the reporting period.
- The conditions of the SWFWMD Water Use Permit for extraction volumes and monthly reporting were achieved during the reporting period.
- The RO effluent concentrations discharged to Infiltration Gallery RC-7002 met discharge criteria, defined as the lower of either the GCTL or Surface Water Quality Standards for constituents detailed in RAPA Table 10-3.
- The groundwater extraction and treatment system was successful in removing approximately 145 pounds of COC mass during the reporting period.

Lockheed Martin will continue to operate the RAPA treatment system through the next operational reporting period. The operation will include the following actions:

- Meet the objectives of the RAOs provided in Section 1.2;
- Extract groundwater for treatment and discharge in accordance with the OMM Manual, 2009 RAPA, FDEP RAPA approval order, and continue scheduled compliance sampling;
- Discharge to infiltration galleries as needed to maintain water levels in these wetland areas;

- 
- Reduce the frequency of voluntary RO permeate sampling from quarterly to annually; and
  - Meet MCUO discharge permit and WUP requirements.

## **6.2 GROUNDWATER LEVEL MONITORING**

Based on the data presented in this report, Lockheed Martin provides the following findings and conclusions for the groundwater level monitoring program:

- Groundwater level monitoring indicated the RAPA system has maintained hydraulic control of the Site COC from August 2014 to August 2015 in the USAS, LSAS, AF Gravels, and S&P Sands, as shown on Figures 3-1 through 3-4, respectively and as discussed in Section 5.3.
- 20 newly installed piezometers provided additional supporting information for contouring water levels in the USAS.
- As intended, the RAPA system did not influence the Lower AF Sands and Floridan aquifers, as is evident based upon review of Figures 3-5 and Figure 3-6.
- The LTWLM program continued to monitor the effects of the RAPA system and off-Site pumping influences.
- The LTWLM data generally confirmed the description of gradients detailed in Section 5.3.2.

Based on the data presented above and in Section 5.3.2, Lockheed Martin recommends the following for the groundwater level monitoring program:

- It has been established that the RAPA is not influencing the Floridan aquifer; therefore, Lockheed Martin recommends removal of the Floridan aquifer monitoring wells from the annual gauging event. Gauging of the Lower AF Sands monitoring wells will continue to ensure that the RAPA system is only influencing the targeted aquifers above.

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### **6.3 EXTRACTION WELL SAMPLING**

Based on the data presented in this report, Lockheed Martin provides the following summary of the extraction well sampling program:

- During the reporting period the treatment system actively extracted and treated the groundwater COC plume as indicated by the results discussed in Section 5.4.2 and as provided in Table 8 and Table 12.
- Flow was reduced in EW-2103 to optimize wetland TW-6 water levels and increased in EW-2104 to maximize capture of the USAS plume located on the agricultural area to the southeast.

Based on the data in Section 5.4.2, Lockheed Martin recommends the following for the extraction well sampling program:

- Following the planned quarterly extraction well sampling event that is scheduled for the end of year two in November 2015, the sampling program will be adjusted to a semi-annual basis for year three, per section 12.3 of the RAPA. Sampling events will be aligned with the effectiveness monitoring to occur in February and August.

### **6.4 EFFECTIVENESS MONITORING**

Based on the data presented in Section 5.4.4, Lockheed Martin provides the following findings and conclusions for the effectiveness monitoring program:

- During this reporting period, the treatment system continued to actively extract and treat the groundwater COC plume, as indicated by the results discussed in Section 5.4.4 and as observed in decreasing COC concentrations in the USAS, LSAS and AF Gravels. Please refer to Sections 5.4.4.1 through 5.4.4.3 and Table 14.
- COC concentration increases observed in the S&P Sands were limited to two on-Facility monitoring wells (IWI-2 and MW-128) and one off-Facility monitoring well (MW-21). Concentrations of COC in IWI-2 and MW-128 have historically fluctuated.

- 
- No COC concentrations were detected at levels greater than GCTLs in either the Lower AF Sands or FAS, as shown on Figures 4-33 through 4-39 and Figures 4-40 through 4-46, respectively. These results are consistent with historical and 2014 data.
  - The comprehensive August 2015 overall GCTL boundary is presented on Figure 5-1. This overall boundary was used to define the proposed 2015 Temporary Point of Compliance (TPOC). The observations presented in Section 5.4.4 regarding changes in groundwater COC concentrations and distributions did not necessitate additional TPOC notifications, per Rule 62-780.220, FAC. The area of the August 2015 GCTL boundary was 6,209,242 ft<sup>2</sup> (143 acres) as compared to 6,752,220 ft<sup>2</sup> (155 acres) exhibited for the August 2014 boundary. This change is a decrease in area of approximately 8%.

Based on recent and historical groundwater sampling data, Lockheed Martin recommends the following for the effectiveness monitoring program:

- 1,4-D was detected at S&P monitoring well MW-21 at 8.1 µg/L. Lockheed Martin recommends adding existing well MW-176 to the annual sampling program.
- COC concentrations in S&P Sands monitoring well MW-182 have remained below GCTLs for six consecutive sampling events. Lockheed Martin recommends removing this well from the annual groundwater monitoring program.
- COC concentrations in Lower AF Sands monitoring well MW-51 have remained below GCTLs for six consecutive sampling events. Lockheed Martin recommends removing MW-51 from the annual groundwater monitoring program.
- Concentrations of COC remain below GCTLs in the FAS. Therefore, Lockheed Martin recommends removing the Floridan wells from the annual groundwater monitoring program, with the exception of the FAS private well 7851 16th St E #2. This well had consistently low-level detections of TCE below the GCTL during the past five consecutive annual sampling events. Based on these detections, Lockheed Martin recommends retaining this well in the sampling program.

The changes Lockheed Martin recommends to the annual groundwater monitoring program are depicted below.

Well	Proposed Action	Aquifer	Location Relative to the Facility	# of Prior Sampling Events Below GCTLs	Rationale or Nearby Monitoring Well(s) that Provide Delineation
MW-176	Add	S&P Sands	North	-	-
MW-182	Remove	S&P Sands	South	6	MW-23
MW-51	Remove	LAF Sands	Southwest	9	MW-44 and MW-57
7500 26TH CT E	Remove	Floridan	East	6	Aquifer above Floridan has no wells > GCTLs
2411 Tallevast Rd Well #2	Remove	Floridan	East	6	Aquifer above Floridan has no wells > GCTLs
7921 15TH ST E #2	Remove	Floridan	South	6	Aquifer above Floridan has no wells > GCTLs
MW-123	Remove	Floridan	On Facility	6	Aquifer above Floridan has no wells > GCTLs
MW-161	Remove	Floridan	East	6	Aquifer above Floridan has no wells > GCTLs
MW-251	Remove	Floridan	Northwest	6	Aquifer above Floridan has no wells > GCTLs

Please refer to Figure 5-2 and Table 19 for the proposed monitoring locations for 2015.

## 6.5 ANNUAL PERSULFATE MONITORING

Lockheed Martin provides the following findings for the annual persulfate monitoring program:

- Concentrations of persulfate pilot study parameters in the USAS and LSAS monitoring wells have generally showed a decreasing trend since baseline sampling in March 2008.

- As discussed in Section 5.4.3, the ROI from the injection points does not extend beyond 10 feet.

Based on recent and historical groundwater sampling data, Lockheed Martin therefore recommends the following for the annual persulfate monitoring program:

Well	Currently Sampled For	Analyte Above GCTLs / Baseline (Whichever is Higher) for the Last Two Events	Recommend Modify Sampling Program to Analyze for the following Parameter(s) Annually	Recommend Discontinue Sampling
CO-A1D	Aluminum	Aluminum	No Change	
CO-C1D	Aluminum			X
EW-108	Sulfate, Arsenic, Iron, TDS	Sulfate, Arsenic, Iron, TDS	No Change	
MW-37	Iron, Manganese	Iron, Manganese	No Change	
MW-38	Aluminum			X
MW-39	Aluminum, Iron, TDS	Aluminum, TDS	Aluminum, TDS	
MW-42	Aluminum, Iron, TDS	TDS	No Change	
MW-43	Manganese		No Change	
MW-72	Sulfate, Aluminum, TDS	Aluminum	Aluminum	
MW-76	Sulfate, Iron	Sulfate, Iron	No Change	
MW-80	Sulfate, Iron, TDS, Manganese	Sulfate, Iron, Manganese, TDS	No change	



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## 6.6 WETLANDS MONITORING

Lockheed Martin presents the following findings and conclusion from the 2015 Annual Wetlands Monitoring Report:

- The monitored TWs and RWs showed evidence of normal water level fluctuation in response to a normal seasonal rainfall distribution for the region when compared to baseline data.
- Groundwater elevations observed at TW-6 during the 2015 monitoring event appear to have been higher than those during the 2014 monitoring event, indicating that RC-7002 is augmenting groundwater recharge and effectively buffering TW-6 from declines attributable to operation of the RAPA system.
- The wetlands are maintained appropriately and are buffered from RAPA system influences.

Lockheed Martin recommends the following for the wetlands monitoring program:

- Annual WMP investigations will continue to occur in May/June each year during RAPA operation. A Wetlands Monitoring Report and comparative analysis with local climate and previously collected data will be submitted to the SWFWMD by September 1 of each year.
- Lockheed Martin will continue to use the real time telemetry and recharge water flow data to provide continuous data for helping achieve RAPA extraction system optimization, including minimizing or preventing potential impacts to target wetlands, through actions such as modifying flow rates at extraction wells and recharge galleries.

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## Section 7

# REFERENCES

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5. ARCADIS, 2009b. *Wetlands Monitoring Plan*, prepared for Lockheed Martin Corporation, July 14.
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7. FDEP, 2005. Klozur™ Activated Persulfate Approval Letter, February 25, 2005.
8. FDEP, Standard Operating Procedure *FS 2000 General Aqueous Sampling*, revision date March 1, 2014.
9. FDEP, Standard Operating Procedure *FS 2200 Groundwater Sampling*, revision date March 1, 2014.
10. FDEP, *FC 1000 Cleaning/Decontamination Procedures*, revision date March 1, 2014.
11. SWFWMD, 1995, *ROMP TR-7 Oneco Monitor Well Site, Manatee County, Florida*, January.
12. Tetra Tech, Inc., 2015, *Long Term Water Level Monitoring Program Annual Report*, October 1, 2015.

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## TABLES

**Table 1  
Operation, Maintenance, and Monitoring Log**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
9/1/2014	Ultrafilter-A cleaned	n/a	
9/2/2014	AOP-A CRU cleaned	n/a	
9/2/2014	Ultrafilter-B cleaned	n/a	
9/2/2014	Primary Settling Tank-B recirculation line cleaned	n/a	
9/2/2014	LIT-7002B transducer replaced	Transducer failed	
9/2/2014	LCP-20-1, LCP-20-2, LCP-30-5 PA spur cards replaced	Cards failed after brief power outage	
9/2/2014	LCP-20-1 receptacle replaced	Receptacle was hot to the touch	
9/2/2014	EW-2101 conveyance pipe acid cleaning	Trunk line piping from EW-2101 back to plant cleaned at pH 1.5 and soaked overnight	
9/3/2014	Primary Settling Tank-A recirculation line cleaned	n/a	
9/3/2014	AOP-B CRU cleaned	Overnight caustic soak	
9/3/2014	Ultrafilter-C cleaned	n/a	
9/3/2014	Primary Settling Tank-B pH probes calibrated	n/a	
9/3/2014	Primary Settling Tank-B aerator exchanged	n/a	
9/3/2014	Influent strainer exchanged and cleaned	n/a	
9/4/2014	Caustic and acid totes exchanged	n/a	✓
9/4/2014	Ultrafilter-A cleaned	n/a	
9/4/2014	Primary Settling Tank-A pH probes calibrated	n/a	
9/4/2014	EW-4005 transducer replaced	Transducer failed	
9/4/2014	EW-2026 pump exchanged and cleaned	n/a	
9/4/2014	Influent strainer exchanged and cleaned	n/a	
9/5/2014	EW-2007 pressure sensor PA card replaced	Card failed	
9/5/2014	EW-2021 pump exchanged and cleaned	n/a	
9/6/2014	Ultrafilter-B cleaned	n/a	
9/8/2014	Filter press feed pump rebuild kit installed	Air side components and diaphragm replaced as preventive maintenance	
9/9/2014	Ultrafilter-C cleaned	n/a	
9/9/2014	AOP-C disconnect fuse replaced	Fuse failed	
9/9/2014	Critical alarm testing performed	As required semi-annually	✓
9/10/2014	Critical alarm testing continued	As required semi-annually	✓
9/10/2014	Ultrafilter-A cleaned	n/a	
9/10/2014	AOP-C DPCV seals inspected	Attempt made to replace piston seals	
9/10/2014	Critical alarm testing concluded	n/a	
9/11/2014	AOP panel air filters replaced	n/a	
9/11/2014	EW-2101 conveyance pipe peroxide cleaning	5% peroxide solution – soaked overnight	
9/12/2014	AOP-B CRU cleaned	Overnight caustic soak	
9/12/2014	AOP-A DPCV pilot valve replaced	Internal air relief pilot valve failed	
9/12/2014	Influent strainer exchanged and cleaned	n/a	
9/12/2014	Vault cross supports installed in EW-2006 and EW-2007 vaults.	Cross supports added to support vault walls	
9/13/2014	Ultrafilter-B cleaned	n/a	
9/13/2014	Panel a/c filters cleaned	n/a	

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Operation, Maintenance, and Monitoring Log**

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<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
9/13/2014	Influent strainer exchanged and cleaned	n/a	
9/14/2014	Ultrafilter-A cleaned	n/a	
9/15/2014	Ultrafilter-C cleaned	n/a	
9/15/2014	Lamp power cables on AOP-A1 #58 L1-L2, AOP-B1 #16 L3-L4 replaced	2 power cables replaced after water damage	
9/15/2014	AOP-B lamps at driver #3 L3-L4 and driver #6 L3-L4 replaced	n/a	
9/16/2015	Acid tote exchanged	n/a	
9/16/2014	Ultrafilter-B cleaned	n/a	
9/16/2014	Ultrafilter pH probes calibrated	n/a	
9/16/2014	Influent strainer exchanged and cleaned	n/a	
9/17/2014	Ultrafilter-A cleaned	n/a	
9/17/2014	Influent strainer exchanged and cleaned	n/a	
9/18/2014	P-620 pump seal replaced	Pump seal failed	
9/18/2014	VPGAC samples collected for waste profile	n/a	
9/19/2014	Caustic tote exchanged	n/a	✓
9/19/2014	Ultrafilter-C cleaned	n/a	
9/19/2014	Panel a/c filters cleaned	n/a	
9/21/2014	POTW effluent pH probe calibrated	Permit required monthly calibration	
9/22/2014	SWS picked up 10 drums of filter press solids from site	Approximately 4000 lbs of filter press solids	
9/22/2014	11 damaged EW VFDs delivered to Intech Asset Recovery for reuse/disposal	n/a	
9/24/2014	Ultrafilter-B cleaned	n/a	
9/24/2014	Process area pump motors lubricated	Preventive maintenance	
9/25/2014	EW-2001 and EW-3020 pumps exchanged with 13-stage model	9 stage pump not providing enough pressure	
9/25/2014	EW-2004 and EW-3025 pumps exchanged and cleaned	n/a	
9/25/2014	Vault cross supports installed in EW-2001, EW-2002, and EW-3020 vaults.	Cross supports added to support vault walls	
9/26/2014	Caustic and acid totes exchanged	n/a	✓
9/26/2014	Ultrafilter-C cleaned	n/a	
9/26/2014	AOP-C acid dosing pump diaphragm kit installed	Preventive maintenance	
9/28/2014	Ultrafilter-A cleaned	n/a	
9/29/2014	Ultrafilter-B cleaned	n/a	
9/29/2014	EW-2037 VFD replaced	VFD replaced after operators not able to reduce the frequency of faults	
9/29/2014	AOP-C #77 lamp driver replaced	n/a	
9/30/2014	AOP-B acid dosing pump diaphragm kit installed	Preventive maintenance	
10/1/2014	Ultrafilter-C cleaned	n/a	
10/1/2014	AOP-A acid dosing pump diaphragm replaced	Routine maintenance	
10/1/2014	Plant motors lubricated	Routine maintenance	
10/2/2014	AOP-C CRU cleaned	n/a	
10/3/2014	Caustic tote exchanged	n/a	✓
10/3/2014	Ultrafilter-A cleaned	n/a	

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<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
10/3/2014	EW-2022, EW-2034, and EW-2036 pumps exchanged and cleaned	n/a	
10/4/2015	Acid tote exchanged	n/a	
10/4/2014	Influent strainer exchanged and cleaned	n/a	
10/5/2014	Ultrafilter-B cleaned	n/a	
10/6/2014	EW-2001, EW-2003, and EW-2010 pumps exchanged and cleaned	n/a	
10/6/2014	EW-2001, EW-2003, EW-2005, EW-2010, EW-3013, and EW-3020 strainers cleaned.	n/a	
10/7/2014	AOP Testing	n/a	✓
10/8/2014	AOP Testing	n/a	✓
10/8/2014	Ultrafilter-A cleaned	n/a	
10/8/2014	Influent strainer exchanged and cleaned	n/a	
10/9/2014	Ultrafilter-B cleaned	n/a	
10/9/2014	EW-3025 hose replaced and pump exchanged and cleaned	n/a	
10/9/2014	EW-2001 strainer cleaned	n/a	
10/9/2015	SWS picked up 10 drums of filter press solids from site	Approximately 4000 lbs of filter press solids	
10/9/2015	SWS picked up universal waste	UV lamps	
10/10/2014	Caustic tote exchanged	n/a	✓
10/12/2014	Ultrafilter-C cleaned	n/a	
10/12/2014	Influent strainer exchanged and cleaned	n/a	
10/13/2014	Power outage	n/a	✓
10/13/2014	Ultrafilter-A cleaned	n/a	
10/13/2014	AOP-B CRU cleaned	n/a	
10/14/2014	Ultrafilter-B cleaned	n/a	
10/14/2014	POTW effluent pH probe calibrated	n/a	
10/14/2014	Influent strainer exchanged and cleaned	n/a	
10/14/2015	Acid tote exchanged	n/a	
10/15/2014	Effluent tank pH probe malfunction	n/a	✓
10/15/2014	Caustic tote exchanged	n/a	✓
10/15/2014	Influent strainer exchanged and cleaned	n/a	
10/16/2014	Ultrafilter-C cleaned	n/a	
10/16/2014	Influent strainer exchanged and cleaned	n/a	
10/17/2014	Ultrafilter-A cleaned	n/a	
10/17/2014	Influent strainer exchanged and cleaned	n/a	
10/18/2014	Ultrafilter-B cleaned	n/a	
10/18/2014	Influent strainer exchanged and cleaned	n/a	
10/19/2014	Influent strainer exchanged and cleaned	n/a	
10/20/2014	AOP Testing	n/a	✓
10/20/2014	Ultrafilter-C cleaned	n/a	
10/20/2014	Influent strainer exchanged and cleaned	n/a	

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<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
10/21/2014	Caustic tote exchanged	n/a	✓
10/21/2014	EW-2102 pump exchanged and cleaned	n/a	
10/21/2014	EW-3018 transducer calibrated	n/a	
10/22/2014	10,000 hour air compressor preventive maintenance performed	n/a	✓
10/22/2014	EW-2036 transducer calibrated	n/a	
10/22/2014	AOP and Ultrafilter pH probes calibrated	n/a	
10/22/2014	EW-2036 sensor prom replaced	Sensor prom failed	
10/22/2014	AOP DPCV stem seals replaced	Seals replaced to prevent leaking	
10/22/2014	EW-2003 strainer cleaned	n/a	
10/22/2014	Influent strainer exchanged and cleaned	n/a	
10/23/2014	Air compressor preventive maintenance – tip seals	n/a	✓
10/23/2014	Ultrafilter-A cleaned	n/a	
10/23/2014	Influent strainer exchanged and cleaned	n/a	
10/24/2014	AOP-B CRU cleaned	n/a	
10/24/2015	Acid tote exchanged	n/a	
10/25/2014	Influent strainer exchanged and cleaned	n/a	
10/26/2014	Ultrafilter-C cleaned	n/a	
10/27/2014	AOP Testing	n/a	✓
10/27/2014	High effluent temperature alarm	n/a	✓
10/27/2014	Ultrafilter-A cleaned	n/a	
10/27/2014	Primary Settling Tank A recirculation piping cleaned	n/a	
10/27/2014	Influent strainer exchanged and cleaned	n/a	
10/28/2014	AOP effluent static mixer cleaned	n/a	✓
10/29/2014	Caustic tote exchanged	n/a	✓
10/30/2014	Ultrafilter-B cleaned	n/a	
10/30/2014	Replaced stir bar in HACH hardness kit	n/a	
10/30/2014	Influent strainer exchanged and cleaned	n/a	
10/31/2014	EW-2003 and EW-3025 pumps exchanged and cleaned	n/a	
10/31/2014	Ultrafilter-B air regulator replaced	n/a	
10/31/2014	Influent strainer exchanged and cleaned	n/a	
11/1/2014	Influent strainer exchanged and cleaned	n/a	
11/1/2014	Ultrafilter-C cleaned	n/a	
11/2/2014	Influent strainer exchanged and cleaned	n/a	
11/3/2014	Influent strainer exchanged and cleaned	n/a	
11/3/2014	Ultrafilter-A cleaned	n/a	
11/3/2014	EW-2101 pump exchanged and cleaned	n/a	
11/3/2014	Plant panel a/c filters cleaned	Routine maintenance	
11/3/2015	Acid tote exchanged	n/a	
11/4/2014	Influent strainer exchanged and cleaned	n/a	
11/4/2014	Ultrafilter-B cleaned	n/a	
11/5/2014	Caustic tote exchanged	n/a	✓
11/5/2014	Influent strainer exchanged and cleaned	n/a	

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<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
11/6/2014	Influent strainer exchanged and cleaned	n/a	
11/6/2014	Ultrafilter-C cleaned	n/a	
11/7/2014	Influent strainer exchanged and cleaned	n/a	
11/7/2014	SWS picked up 12 drums of filter press solids and 2 drums of drilling mud/soil solids from site	Approximately 5600 lbs of solids	
11/8/2014	Influent strainer exchanged and cleaned	n/a	
11/8/2014	Ultrafilter-A cleaned	n/a	
11/9/2014	Influent strainer exchanged and cleaned	n/a	
11/10/2014	Influent strainer exchanged and cleaned	n/a	
11/10/2014	Ultrafilter-B cleaned	n/a	
11/10/2014	EW-2001, EW-2002, EW-2003, EW-2004, EW-2005, EW-2006, EW-2007, EW-2101, EW-2102, and EW-3020 strainers cleaned	n/a	
11/11/2015	Spent carbon transported to WM by Adler	n/a	
11/12/2014	Caustic tote exchanged	n/a	✓
11/12/2014	Influent strainer exchanged and cleaned	n/a	
11/12/2014	Ultrafilter-C cleaned	n/a	
11/13/2014	Ultrafilter-A cleaned	n/a	
11/13/2014	RO pH and conductivity probes calibrated	n/a	
11/13/2015	Acid tote exchanged	n/a	
11/14/2014	POTW effluent pH probe calibrated	n/a	
11/14/2014	EW-2101 pump exchanged and cleaned	n/a	
11/14/2014	Primary Settling Tank-A recirculation line cleaning	Routine maintenance	
11/15/2014	Influent strainer exchanged and cleaned	n/a	
11/16/2014	Ultrafilter-B cleaned	n/a	
11/17/2014	Power outages	n/a	✓
11/17/2014	Influent strainer exchanged and cleaned	n/a	
11/17/2014	Primary Settling Tank-B recirculation line cleaning	Routine maintenance	
11/18/2014	Ultrafilter-C cleaned	n/a	
11/18/2014	Air filters replaced on AOPs, AOP Feed, Ultrafilters and Primary Settling Tanks electrical panels	n/a	
11/19/2014	Caustic tote exchanged	n/a	✓
11/20/2014	Caustic tote exchanged - weak caustic solution	n/a	✓
11/20/2014	Ultrafilter-A cleaned	n/a	
11/20/2014	Ultrafilter-B pump gasket replaced	n/a	
11/21/2014	Ultrafilter-B cleaned	n/a	
11/24/2014	Ultrafilter-C cleaned	n/a	
11/24/2014	FIT-100, FIT-500, and FIT-665 calibrated by Curry Controls	Annual flow meter calibration	
11/24/2014	EW-2001, EW-2002, EW-2003, EW-2004, and EW-2005 strainers cleaned	n/a	
11/25/2015	Acid tote exchanged	n/a	
11/25/2014	Ultrafilter-A cleaned	n/a	
11/26/2014	Influent strainer exchanged and cleaned	n/a	



**Table 1  
Operation, Maintenance, and Monitoring Log**

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October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
11/26/2014	Ultrafilter-B cleaned	n/a	
11/26/2014	EW-2015 sensor prom replaced	Sensor prom failed	
11/27/2014	Caustic tote exchanged	n/a	✓
11/28/2014	Ultrafilter-C cleaned	n/a	
11/28/2014	T-500 pH probe replaced	n/a	
11/28/2014	Plant panel a/c filters cleaned	Routine maintenance	
11/29/2014	Influent strainer exchanged and cleaned	n/a	
11/30/2014	Influent strainer exchanged and cleaned	n/a	
11/30/2014	Ultrafilter-A cleaned	n/a	
12/1/2014	Ultrafilter-B cleaned	n/a	
12/2/2014	Site Inspection	n/a	✓
12/2/2014	Influent strainer exchanged and cleaned	n/a	
12/2/2014	Ultrafilter-C cleaned	n/a	
12/3/2014	Influent strainer exchanged and cleaned	n/a	
12/3/2014	SWS picked up 11 drums of filter press solids from site	Approximately 4,400 lbs of filter press solids	
12/4/2014	Caustic tote exchanged	n/a	✓
12/4/2014	EW-2003, EW-2004, and EW-2023 pumps exchanged and cleaned	n/a	
12/4/2014	Filter press cleaned with acid solution	n/a	
12/4/2014	EW-3008 VFD communication card replaced	n/a	
12/5/2014	Ultrafilter-A cleaned	n/a	
12/5/2015	Acid tote exchanged	n/a	
12/6/2014	Ultrafilter-B cleaned	n/a	
12/8/2014	Ultrafilter-C cleaned	n/a	
12/9/2014	Ultrafilter-A cleaned	n/a	
12/9/2014	Acid level indicator installed	H&S engineering control implemented	
12/10/2014	AOP-C Testing	n/a	✓
12/11/2014	Influent strainer exchanged and cleaned	n/a	
12/11/2014	Ultrafilter-B cleaned	n/a	
12/11/2014	Ultrafilter-B pH probe replaced	n/a	
12/11/2014	AOP pH probes, Ultrafilter pH probes, and AOP effluent pH probe calibrated	Routine maintenance	
12/11/2014	Annual electrical inspection and connections tightening	Routine maintenance	✓
12/12/2015	Spent carbon transported to WM by Adler	n/a	
12/12/2014	Caustic tote exchanged	n/a	✓
12/12/2014	Ultrafilter-C and AOP-A CRU cleaned	n/a	
12/14/2014	Ultrafilter-A cleaned	n/a	
12/15/2014	AOP-B CRU cleaned	n/a	
12/15/2015	Acid tote exchanged	n/a	
12/16/2014	Ultrafilter-B cleaned	n/a	
12/16/2014	POTW effluent pH probe, RO pH and conductivity probe calibrated	n/a	

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<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
12/17/2014	Ultrafilter-A DPCV replaced	n/a	✓
12/18/2014	Ultrafilter-A DPCV replaced	n/a	✓
12/18/2014	Ultrafilter-C cleaned	n/a	
12/18/2014	EW-2001 and EW-3016 pumps exchanged and cleaned	n/a	
12/19/2014	Ultrafilter-A cleaned	n/a	
12/19/2014	EW-2001, EW-2101, and EW-2102 pumps exchanged and cleaned	n/a	
12/20/2014	Influent strainer exchanged and cleaned	n/a	
12/20/2014	Ultrafilter-B cleaned	n/a	
12/22/2014	AOP effluent static mixer cleaned	n/a	✓
12/22/2014	Ultrafilter-C cleaned	n/a	
12/23/2014	Ultrafilter-A cleaned	n/a	
12/24/2014	Caustic tote exchanged	n/a	✓
12/24/2014	AOP-B CRU cleaned	n/a	
12/24/2014	SWS picked up 11 drums of filter press solids from site	Approximately 4,400 lbs of filter press solids	
12/25/2014	Influent strainer exchanged and cleaned	n/a	
12/25/2015	Acid tote exchanged	n/a	
12/26/2014	Ultrafilter-B cleaned	n/a	
12/26/2014	GAC-410 control panel ET-2005 communication card replaced	Communication card failed	
12/28/2014	Ultrafilter-C cleaned	n/a	
12/29/2014	Primary Settling Tank-A aerator exchanged and cleaned	n/a	
12/30/2014	Influent strainer exchanged and cleaned	n/a	
12/30/2014	AOP-C CRU exchanged with spare	n/a	
12/31/2014	Caustic tote exchanged	n/a	✓
12/31/2014	Influent strainer exchanged and cleaned	n/a	
12/31/2014	Primary Settling Tank-A pH probe calibrated	n/a	
1/1/2015	Influent strainer exchanged and cleaned	n/a	
1/2/2015	Ultrafilter-B cleaned	n/a	
1/2/2015	Influent strainer exchanged and cleaned	n/a	
1/3/2015	Influent strainer exchanged and cleaned	n/a	
1/4/2015	Influent strainer exchanged and cleaned	n/a	
1/5/2015	RO panel powered down for communication issues	n/a	✓
1/4/2015	Panel air filters on RO, Media Filters and Sump cleaned	Routine maintenance	
1/5/2015	Ultrafilter-C cleaned	n/a	
1/5/2015	Influent strainer exchanged and cleaned	n/a	
1/5/2015	New buffer solution placed in hardness analyzer	n/a	
1/5/2015	Acid tote exchanged	n/a	
1/6/2015	AOP-B CRU cleaned	n/a	
1/6/2015	AOP broken quartz tubes replaced	Routine maintenance	
1/6/2015	POTW effluent pH and T-660 pH probes calibrated	n/a	
1/7/2015	Caustic tote exchanged	n/a	✓

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1/7/2015	Ultrafilter-A cleaned	n/a	
1/7/2015	AOP-B SLCV air line replaced	n/a	
1/8/2015	AOP-A CRU cleaned	n/a	
1/9/2015	Ultrafilter-B pH probe calibrated	n/a	
1/9/2015	EW-2101 vertical hose replaced	n/a	
1/9/2015	EW-2036 check valve replaced	n/a	
1/11/2015	Ultrafilter-B cleaned	n/a	
1/11/2015	Influent strainer exchanged and cleaned	n/a	
1/12/2015	Influent strainer exchanged and cleaned	n/a	
1/12/2015	AOP Testing	n/a	✓
1/12/2015	Restart PLC - PLC backup batteries replaced	n/a	✓
1/13/2015	Influent strainer exchanged and cleaned	n/a	
1/13/2015	AOP Testing	n/a	✓
1/13/2015	SWS picked up 13 drums of filter press solids from site	Approximately 5,200 lbs of filter press solids	
1/13/2015	Annual Plant bolt tightness checks begun	n/a	
1/14/2015	Primary Settling Tank-B power cycling	n/a	✓
1/14/2015	Ultrafilter-C cleaned	n/a	
1/14/2015	EW-4004 flow meter removed from vault and installed in panel	n/a	
1/14/2015	EW-2025 transducer calibrated	n/a	
1/15/2015	Caustic and acid totes exchanged	n/a	✓
1/15/2015	AOP-B CRU cleaned	n/a	
1/15/2015	Influent strainer exchanged and cleaned	n/a	
1/15/2015	EW-2011 flow meter removed from vault and installed in panel	n/a	
1/16/2015	AOP-A CRU cleaned	n/a	
1/16/2015	UV lamps installed on AOP-B	n/a	
1/17/2015	Ultrafilter-A cleaned	n/a	
1/17/2015	Influent strainer exchanged and cleaned	n/a	
1/18/2015	Influent strainer exchanged and cleaned	n/a	
1/18/2015	Panel air filters on RO, Media Filters and Sump cleaned	Routine maintenance	
1/19/2015	Influent strainer exchanged and cleaned	n/a	✓
1/19/2015	UV lamps installed on AOPs	n/a	
1/20/2015	Ultrafilter-B cleaned	n/a	
1/20/2015	POTW effluent probe replaced and calibrated	n/a	
1/22/2015	Influent strainer exchanged and cleaned	n/a	
1/22/2015	AOP-B1 #25 driver replaced	n/a	
1/23/2015	Caustic tote exchanged	n/a	✓
1/23/2015	Ultrafilter-C cleaned	n/a	
1/24/2015	Ultrafilter-A cleaned	n/a	
1/24/2015	Influent strainer exchanged and cleaned	n/a	
1/25/2015	RO pH and conductivity probe calibrated	n/a	

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1/26/2015	Ultrafilter-B cleaned	n/a	
1/26/2015	Acid tote exchanged	n/a	
1/27/2015	Influent strainer exchanged and cleaned	n/a	
1/27/2015	AOP testing	n/a	
1/28/2015	Ultrafilter-C cleaned	n/a	
1/28/2015	AOP-B CRU cleaned	n/a	
1/28/2015	Influent strainer exchanged and cleaned	n/a	
1/28/2015	AOP effluent pH probe calibrated	n/a	
1/28/2015	AOP-B2 #48 driver replaced	n/a	
1/28/2015	Primary Settling Tank-B recirculation cleaning	n/a	✓
1/28/2015	Discharge Force Main Inspection	n/a	
1/29/2015	Ultrafilter-A cleaned	n/a	
1/29/2015	Influent strainer exchanged and cleaned	n/a	
1/30/2015	AOP-A CRU cleaned	n/a	
1/30/2015	Influent strainer exchanged and cleaned	n/a	
1/30/2015	Ultrafilters, AOPs, and Primary Settling Tank-B pH probes calibrated	n/a	
1/30/2015	Critical alarm testing	n/a	✓
1/31/2015	Caustic tote exchanged	n/a	✓
1/31/2015	Influent strainer exchanged and cleaned	n/a	
2/1/2015	Ultrafilter-B cleaned	n/a	
2/1/2015	Influent strainer exchanged and cleaned	n/a	
2/3/2015	Influent strainer maintenance	n/a	✓
2/3/2015	Influent strainer exchanged and cleaned	n/a	
2/3/2015	Acid tote exchanged	n/a	
2/4/2015	Ultrafilter-C cleaned	n/a	
2/4/2015	Influent strainer exchanged and cleaned	n/a	
2/6/2015	Ultrafilter-A cleaned	n/a	
2/6/2015	Influent strainer exchanged and cleaned	n/a	
2/6/2015	GAC reconfiguration – GAC-400A and 410A draining	400B and 410B now lead vessels	
2/7/2015	Influent strainer exchanged and cleaned	n/a	
2/8/2015	Influent strainer exchanged and cleaned	n/a	
2/9/2015	Caustic tote exchanged	n/a	✓
2/9/2015	Influent strainer exchanged and cleaned	n/a	
2/10/2015	Ultrafilter-C cleaned	n/a	
2/10/2015	Influent strainer exchanged and cleaned	n/a	
2/10/2015	Replaced AOP air filters	Normal maintenance	
2/10/2015	GAC 400A and 410A vessels change out	Two-day process	
2/12/2015	GAC 400A and 410A vessels soaked after change out	n/a	
2/12/2015	Line cleaning performed at golf course trunk line	All southwest wells disabled	✓
2/12/2015			
2/13/2015	AOP-A and AOP-B CRU cleaned	n/a	
2/13/2015	Influent strainer exchanged and cleaned	n/a	

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2/13/2015	Primary Settling Tank-A aerator exchanged and cleaned	n/a	
2/13/2015	Line cleaning flush performed at golf course wells	All southwest wells enabled after flush out	✓
2/14/2015	Influent strainer exchanged and cleaned	n/a	
2/15/2015	AOP-B CRU cleaned	n/a	
2/15/2015	Ultrafilter-B cleaned	n/a	
2/15/2015	Influent strainer exchanged and cleaned	n/a	
2/15/2015	GAC 400A and 410A vessels backwashed and placed online	n/a	
2/17/2015	Caustic and acid tote exchanged	n/a	✓
2/17/2015	Ultrafilter-C cleaned	n/a	
2/17/2015	Influent strainer exchanged and cleaned	n/a	
2/17/2015	Acid tote exchanged	n/a	
2/17/2015	SWS picked up 18 drums of filter press solids from site	Approximately 7,200 lbs of filter press solids	
2/18/2015	Influent strainer maintenance	n/a	✓
2/18/2015	Influent strainer exchanged and cleaned	n/a	
2/18/2015	Manatee County sampling performed	Performed by Manatee County personnel	
2/19/2015	Influent strainer exchanged and cleaned	n/a	
2/19/2015	AOP-B and Ultrafilter-A pH probes replaced and calibrated	n/a	
2/19/2015	EW-2103 and EW-2104 strainers cleaned	n/a	
2/19/2015	Manatee County inspection performed	Performed by Manatee County personnel	
2/20/2015	Ultrafilter-A cleaned	n/a	
2/20/2015	AOP-A CRU cleaned	n/a	
2/20/2015	Influent strainer exchanged and cleaned	n/a	
2/20/2015	POTW effluent, effluent tank, and T-120 pH probe calibrated	n/a	
2/20/2015	AOP-C TiO <sub>2</sub> drained and replaced	n/a	
2/21/2015	Ultrafilter-B cleaned	n/a	
2/21/2015	Ultrafilter-A pH probe replaced and calibrated	n/a	
2/22/2015	Influent strainer exchanged and cleaned	n/a	
2/22/2015	Panel air filters cleaned in process area	Routine maintenance	
2/22/2015	Ultrafilter-B disabled due to internal seal leak	n/a	
2/25/2015	Caustic tote exchanged	n/a	✓
2/25/2015	Ultrafilter-C cleaned	n/a	
2/26/2015	AOP-A CRU cleaned	n/a	
2/26/2015	Ultrafilter-A cleaned	n/a	
2/26/2015	EW-2025 level transducer and pump exchanged	n/a	
2/26/2015	EW-2001, EW-2003, EW-2034, EW-2036 and EW-4010 strainers cleaned	n/a	
2/27/2015	Influent strainer exchanged and cleaned	n/a	
3/1/2015	Ultrafilter-C cleaned	n/a	

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3/1/2015	T-120 pH probe calibrated	n/a	
3/1/2015	Acid tote exchanged	n/a	
3/2/2015	AOP-C CRU cleaned	n/a	
3/3/2015	T-810 panel repaired	n/a	✓
3/5/2015	Ultrafilter-B south side membrane housing exchanged	n/a	✓
3/5/2015	Caustic tote exchanged	n/a	✓
3/6/2015	Ultrafilter-B cleaned	n/a	
3/6/2015	EW-3014, EW-3025, and EW-4006 pressure transmitters replaced	Slow failure over time due to initial vault flooding. Replaced sensors when replacement arrived.	
3/7/2015	Ultrafilter-C cleaned	n/a	
3/9/2015	Ultrafilter-A cleaned	n/a	
3/10/2015	SWS picked up 15 drums of filter press solids and 3 drums of drilling mud from site	Approximately 7,200 pounds (lbs) of filter press solids	
3/10/2015	EW-2101 well screen cleaning	All southwest wells disabled	✓
3/11/2015	AOP-B CRU cleaned	n/a	
3/11/2015	EW-2101 well screen flush after cleaning previous day	All southwest wells disabled	✓
3/11/2015	Influent strainer exchanged and cleaned	n/a	
3/12/2015	Caustic tote exchanged	n/a	✓
3/12/2015	AOP-B CRU cleaned	n/a	
3/12/2015	EW-2101 strainer cleaned	n/a	
3/13/2015	Ultrafilter-B cleaned	n/a	
3/13/2015	Influent strainer exchanged and cleaned	n/a	
3/13/2015	Acid tote exchanged	n/a	
3/14/2015	Power outage	n/a	✓
3/15/2015	Ultrafilter-C cleaned	n/a	
3/16/2015	Influent strainer exchanged and cleaned	n/a	
3/17/2015	Ultrafilter-A cleaned	n/a	
3/17/2015	Influent strainer exchanged and cleaned	n/a	
3/17/2015	SWS picked up 15 drums of filter press solids from site	Approximately 6,000 lbs of filter press solids	
3/17/2015	T-810 diffuser cleaned	n/a	
3/18/2015	Caustic tote exchanged	n/a	✓
3/18/2015	Influent strainer exchanged and cleaned	n/a	
3/19/2015	Southwest wells conveyance trunk line snaked	All southwest wells disabled	✓
3/19/2015	Ultrafilter-B cleaned	n/a	
3/19/2015	Influent strainer exchanged and cleaned	n/a	
3/20/2015	Influent strainer exchanged and cleaned	n/a	
3/20/2015	Panel air filters cleaned in process area	Routine maintenance	
3/20/2015	Southwest wells conveyance trunk line snaked	All southwest wells disabled	✓
3/22/2015	Ultrafilter-C cleaned	n/a	
3/22/2015	Influent strainer exchanged and cleaned	n/a	
3/23/2015	Power outage	n/a	✓

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3/24/2015	Power outage	n/a	✓
3/24/2015	Influent strainer exchanged and cleaned	n/a	
3/24/2015	Acid tote exchanged	n/a	
3/25/2015	AOP-C CRU cleaned	n/a	
3/25/2015	Influent strainer exchanged and cleaned	n/a	
3/25/2015	Hardness monitor reagent replaced	n/a	
3/26/2015	Ultrafilter-A cleaned	n/a	
3/26/2015	Southwest wells trunk line high velocity water cleaning performed	Fire hydrant used for activities	
3/27/2015	Caustic tote exchanged	n/a	✓
3/27/2015	Ultrafilter-B cleaned	n/a	
3/27/2015	Influent strainer exchanged and cleaned	n/a	
3/27/2015	POTW effluent pH probe calibrated	n/a	
3/27/2015	GAC reconfiguration – GAC-400B and 410B draining	GAC 400C and 410C now lead vessels	
3/28/2015	Influent strainer exchanged and cleaned	n/a	
3/30/2015	Influent strainer exchanged and cleaned	n/a	
3/30/2015	GAC 400B and 410B vessels change out begins	n/a	
3/31/2015	Ultrafilter-C cleaned	n/a	
4/1/2015	Influent strainer exchanged and cleaned	n/a	
4/1/2015	Ultrafilter-C cleaned	n/a	
4/1/2015	AOP-C CRU cleaned	n/a	
4/1/2015	Golf course force main cleaned	EW-2001-11, 2034, 2035, 2101, 2102, 3011-20, 3023, 4004, 4009, 5002 disabled during cleaning	
4/2/2015	EW-2018 T-blocks on level sensor replaced	n/a	
4/2/2015	Cartridge filters on RO replaced	n/a	
4/3/2015	Influent strainer exchanged and cleaned	n/a	
4/3/2015	EW-2101 and EW-2102 pumps exchanged and cleaned	n/a	
4/4/2015	Caustic and acid tote exchanged	n/a	✓
4/4/2015	Influent strainer exchanged and cleaned	n/a	
4/4/2015	Hach hardness station calibrated	n/a	
4/5/2015	Ultrafilter-B cleaned	n/a	
4/6/2015	Influent strainer exchanged and cleaned	n/a	
4/7/2015	Spent carbon transported to WM by Adler	n/a	
4/7/2015	T-120 pH probe calibrated	n/a	
4/8/2015	RO Feed pump troubleshooting	n/a	✓
4/8/2015	Influent strainer exchanged and cleaned	n/a	
4/8/2015	RO conductivity, T-120 pH, and RO pH probes calibrated	n/a	
4/8/2015	AOP-B DPCV pilot valve replaced	n/a	
4/8/2015	Primary Settling Tank-A and Primary Settling Tank-B dosing probes and inlet valve actuator solenoids replaced	New model probe installed	
4/9/2015	Ultrafilter-C cleaned	n/a	

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4/9/2015	AOP-C CRU cleaned	n/a	
4/9/2015	New flow meter, pressure gauge, and control valve installed at RC-7001 and RC-7002	Valve operation and communication from HMI verified to be working properly	
4/9/2015	SWS picked up 15 drums of filter press solids from site	Approximately 6,000 lbs of filter press solids	
4/11/2015	Ultrafilter-A cleaned	n/a	
4/12/2015	Caustic tote exchanged	n/a	✓
4/13/2015	Power outage	n/a	✓
4/13/2015	AOP-A CRU cleaned	n/a	
4/14/2015	AOP-B CRU cleaned	n/a	
4/14/2015	Acid tote exchanged	n/a	
4/15/2015	Ultrafilter-B cleaned	n/a	
4/15/2015	Ultrafilter-B pH probe replaced	n/a	
4/15/2015	Air tubing on AOP-A SLCV replaced	n/a	
4/16/2015	Influent strainer exchanged and cleaned	n/a	
4/16/2015	POTW effluent pH probe calibrated	n/a	
4/16/2015	T-660, T-500 pH probes calibrated	n/a	
4/16/2015	Driver on AOP-C1#79 and AOP-C2 #3 replaced	n/a	
4/18/2015	Ultrafilter-C cleaned	n/a	
4/20/2015	Ultrafilter-A cleaned	n/a	
4/20/2015	Check valve on P-800A cleaned	n/a	
4/21/2015	Caustic tote exchanged	n/a	✓
4/21/2015	Ultrafilter-B cleaned	n/a	
4/22/2015	PLC programming	n/a	✓
4/22/2015	Primary Settling Tank-A recirculation line cleaning	n/a	
4/22/2015	Portion of GC conveyance trunk and EW-2034 lateral lines cleaned	n/a	
4/23/2015	Evidence suggesting a breach in inner portion of HDPE piping between EW-2035 vault and MH-12	n/a	✓
4/24/2015	Influent strainer exchanged and cleaned	n/a	
4/24/2015	EW-2001 and EW-2004 pumps replaced	n/a	
4/24/2015	Y-strainers at EW-2101, EW-2102, and EW-2104 cleaned	n/a	
4/24/2015	Acid tote exchanged	n/a	
4/26/2015	Influent strainer exchanged and cleaned	n/a	
4/26/2015	Ultrafilter-C cleaned	n/a	
4/27/2015	Influent strainer exchanged and cleaned	n/a	
4/27/2015	Panel air filters cleaned in process area	Routine maintenance	
4/28/2015	Caustic tote exchanged	n/a	✓
4/28/2015	Influent strainer exchanged and cleaned	n/a	
4/29/2015	Influent strainer exchanged and cleaned	n/a	
4/29/2015	Ultrafilter-A cleaned	n/a	
5/1/2015	Influent strainer exchanged and cleaned	n/a	



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5/1/2015	Y-strainers at EW-2101 and EW-2102 cleaned	n/a	
5/2/2015	Ultrafilter-B cleaned	n/a	
5/2/2015	Influent strainer exchanged and cleaned	n/a	
5/3/2015	Influent strainer exchanged and cleaned	n/a	
5/4/2015	Check valve on P-800A cleaned	n/a	
5/5/2015	False system alarm	n/a	✓
5/5/2015	Caustic and acid totes exchanged	n/a	✓
5/5/2015	Ultrafilter-C cleaned	n/a	
5/5/2015	Influent strainer exchanged and cleaned	n/a	
5/5/2015	EW-2101 pump exchanged and cleaned	n/a	
5/6/2015	Ultrafilter-A cleaned	n/a	
5/6/2015	Panel air filters cleaned in process area	Routine maintenance	
5/8/2015	Ultrafilter-B cleaned	n/a	
5/8/2015	AOP-B air leak repaired	n/a	
5/10/2015	Ultrafilter-C cleaned	n/a	
5/12/2015	Power outage	n/a	✓
5/13/2015	Ultrafilter-A cleaned	n/a	
5/13/2015	Optical Light Module (OLM), (2) ET200S cards, Distributed Periphery/Process Automation (DP/PA) coupler, Analog Input (AI) card, EW-4009 flow head, PA communication, and EW-3019 pressure gauge spur card replaced in LCP-30-7	Damaged after power outage on 05/12/15	
5/13/2015	Southern Waste Services (SWS) picked up 13 drums of filter press solids from site	Approximately 5,200 lbs of filter press solids	
5/14/2015	Power outage	n/a	✓
5/14/2015	RC-7002B level sensor replaced	n/a	
5/14/2015	Y-strainers at EW-2003, EW-2036, and EW-2102 cleaned	n/a	
5/15/2015	EW-2021 and EW-2036 pumps replaced	n/a	
5/15/2015	EW-4009 level sensor replaced	n/a	
5/16/2015	Ultrafilter-B cleaned	n/a	
5/17/2015	Influent strainer exchanged and cleaned	n/a	
5/17/2015	Hardness monitor sample tube replaced	n/a	
5/17/2015	Acid tote exchanged	n/a	
5/18/2015	Ultrafilter-B cleaned	n/a	
5/18/2015	AOP-B CRU cleaned	n/a	
5/18/2015	POTW effluent pH probe, T-500 pH probe, T-660 pH probe, RO pH probe, and RO conductivity probe calibrated	n/a	
5/18/2015	Primary Settling Tank-B recirculation line cleaning	n/a	
5/19/2015	Ultrafilter-C cleaned	n/a	
5/19/2015	Primary Settling Tank-A DO probe calibrated	n/a	
5/19/2015	EW-3021 pump replaced	n/a	
5/19/2015	EW-2010 and EW-3017 PIT PA block replaced	n/a	

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5/19/2015	New wheels installed on plant air compressor	n/a	
5/19/2015	Air filters replaced on AOP Feed, Ultrafilters, and Primary Settling Tank panels	n/a	
5/21/2015	Ultrafilter-A cleaned	n/a	
5/21/2015	Influent strainer exchanged and cleaned	n/a	
5/22/2015	EW-2102 pump replaced	n/a	
5/22/2015	Y-strainer at EW-2102 cleaned	n/a	
5/22/2015	LCP-30-7 redundant OLM replaced	n/a	
5/22/2015	RC-7001 and RC-7002 transducer hand hole boxes raised	n/a	
5/23/2015	Ultrafilter-B cleaned	n/a	
5/23/2015	Plant A/C filters cleaned	Routine maintenance	
5/25/2015	Caustic tote exchanged	n/a	✓
5/26/2015	AOP-A CRU cleaned	n/a	
5/26/2015	Primary Settling Tank-B dosing pH probe cable replaced	n/a	
5/26/2015	Influent strainer exchanged and cleaned	n/a	
5/26/2015	Y-strainers at EW-2101 and EW-2102 cleaned	n/a	
5/27/2015	AOP-B CRU cleaned	n/a	
5/27/2015	AOP panel air filters replaced	n/a	
5/28/2015	AOP-C CRU cleaned	n/a	
5/28/2015	Ultrafilter-C cleaned	n/a	
5/28/2015	RC-7002A and RC-7002B level sensors calibrated	n/a	
5/29/2015	Acid tote exchanged	n/a	
5/30/2015	Ultrafilter-A cleaned	n/a	
6/3/2015	Caustic tote exchanged	n/a	✓
6/3/2015	Ceramic Ultra Filtration (Ultrafilter)-C cleaned	n/a	
6/3/2015	Y-strainers at Extraction Well (EW)-2101, EW-2102 and EW-3016 cleaned	n/a	
6/4/2015	Air compressor preventative maintenance	Routine maintenance	✓
6/5/2015	Air compressor preventative maintenance	Routine maintenance	✓
6/5/2015	Process area valves exercised	n/a	
6/7/2015	Ultrafilter-A cleaned	n/a	
6/9/2015	Ultrafilter-B cleaned	n/a	
6/9/2015	Y-strainers at EW-2101 and EW-2102 cleaned	n/a	
6/9/2015	Acid tote exchanged	n/a	
6/10/2015	T-120 pH probe replaced	n/a	
6/10/2015	AOP-C2 # 38 lamp driver replaced	n/a	
6/10/2015	Plant motor greasing performed	n/a	
6/11/2015	Caustic tote exchanged	n/a	✓
6/11/2015	Ultrafilter-C cleaned	n/a	
6/12/2015	Ultrafilter-A cleaned	n/a	
6/14/2015	Power outage	n/a	✓
6/15/2015	Ultrafilter-A cleaned	n/a	

**Table 1  
Operation, Maintenance, and Monitoring Log**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
6/15/2015	Southern Waste Services (SWS) picked up 17 drums of filter press solids from site	Approximately 6,800 pounds of filter press solids	
6/15/2015	EW-2102 strainer cleaned	n/a	
6/15/2015	Line repair compled by Eclipse Construction	At EW-5002, EW-2035 to Manhole (MH)-12 location	
6/16/2015	Primary Settling Tank-A recirculation line cleaned	n/a	
6/17/2015	Primary Settling Tank-A pH probe calibrated	n/a	
6/17/2015	A/C blower motor replaced on Local control panel (LCP) 15-3	n/a	
6/18/2015	EW-2035 line jetting from MH-41	n/a	
6/18/2015	Influent strainer exchanged and cleaned	n/a	
6/19/2015	Ultrafilter-C cleaned	n/a	
6/19/2015	Ultrafilter-C pH probe replaced	n/a	
6/19/2015	Golf course line jetting	n/a	
6/19/2015	AOP, Ultrafilter, Primary Settling Tank air filters replaced	Routine maintenance	
6/20/2015	Influent strainer exchanged and cleaned	n/a	
6/20/2015	Caustic and acid totes exchanged	n/a	✓
6/21/2015	Caustic leak repaired	n/a	✓
6/21/2015	Ultrafilter-A cleaned	n/a	
6/23/2015	POTW effluent, T-500, and T-660 pH probes calibrated	n/a	
6/23/2015	EW-2009 connection board on panel mounted flow meter replaced	n/a	
6/23/2015	Influent strainer exchanged and cleaned	n/a	
6/23/2015	Spent carbon transported to WM by Adler	n/a	
6/24/2015	Ultrafilter-B cleaned	n/a	
6/24/2015	EW-2035 line jetting	Second attempt	
6/25/2015	Primary Settling Tank-B VFD fault	n/a	✓
6/25/2015	Ultrafilter-C cleaned	n/a	
6/26/2015	EW transducer calibration	Routine maintenance	
6/27/2015	Ultrafilter vent piping installed	n/a	
6/28/2015	Ultrafilter-A cleaned	n/a	
6/28/2015	Caustic tote exchanged	n/a	✓
6/30/2015	Power outage	n/a	✓
6/30/2015	Ultrafilter-B cleaned	n/a	
6/30/2015	Ultrafilter-A pH probe replaced	n/a	
7/1/2015	18 AOP UV lamp pairs and 1 cable replaced on AOP-B and AOP-C	n/a	
7/1/2015	Ultrafilter programming changes implemented	n/a	✓
7/2/2015	Ultrafilter programming changes implemented	n/a	✓
7/2/2015	Ultrafilter-C cleaned	n/a	
7/2/2015	Transducer calibration follow up	n/a	
7/2/2015	Acid tote exchanged	n/a	
7/5/2015	POTW effluent pH probe calibrated	n/a	
7/5/2015	Plant panel A/C filters replaced	Normal maintenance	

**Table 1  
Operation, Maintenance, and Monitoring Log**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
7/7/2015	Caustic tote exchanged	n/a	✓
7/7/2015	Southern Waste Services (SWS) picked up 11 drums of filter press solids from site	Approximately 4,400 pounds of filter press solids	
7/7/2015	EW-2015, EW-2034, EW-2036, EW-2101, EW-2102, EW-3001, EW-3011, EW-4004 and EW-4010 y-strainers cleaned	n/a	
7/7/2015	Ultrafilter-B cable protection installed	n/a	
7/9/2015	Ultrafilter-A cleaned	n/a	
7/10/2015	Purifics programming update	n/a	✓
7/10/2015	Influent strainer exchanged and cleaned	n/a	
7/10/2015	Ultrafilter-B cleaned	n/a	
7/12/2015	Accidental shut down from HMI	n/a	✓
7/13/2015	AOP-B CRU cleaned	n/a	
7/14/2015	AOP-A CRU cleaned	n/a	
7/14/2015	Primary Settling Tank-B recirculation line cleaned	n/a	
7/14/2015	Acid tote exchanged	n/a	
7/15/2015	Primary Settling Tank-B high level alarm	n/a	✓
7/15/2015	Primary Settling Tank-B pH probe calibrated	n/a	
7/15/2015	EW-2102 pressure transmitter card replaced	n/a	
7/16/2015	AOP-A CRU cleaned	n/a	
7/16/2015	AOP-A pH probe replaced and calibrated	n/a	
7/17/2015	Caustic tote exchanged	n/a	✓
7/17/2015	AOP-B CRU cleaned	n/a	
7/17/2015	EW-2101 and EW-2102 y-strainers cleaned	n/a	
7/18/2015	AOP-B and AOP-C pH probes calibrated	n/a	
7/19/2015	Ultrafilter-C cleaned	n/a	
7/19/2015	AOP-C pH probe replaced and calibrated	n/a	
7/21/2015	EW-2101, EW-2102, and EW-3018 y-strainers cleaned	n/a	
7/21/2015	EW-2101 and EW-2102 pumps cleaned and replaced	n/a	
7/23/2015	AOP-A and AOP-B DPCV pilot air valves replaced	n/a	
7/24/2015	Ultrafilter-A cleaned	n/a	
7/25/2015	Power outage	n/a	✓
7/25/2015	POTW effluent pH probe, RO pH probe, and RO conductivity probe calibrated	n/a	
7/25/2015	Acid tote exchanged	n/a	
7/26/2015	Caustic tote exchanged	n/a	✓
7/27/2015	AOP caustic probe calibrated	n/a	
7/27/2015	Critical alarm testing	n/a	✓
7/28/2015	T-200 high level alarm	n/a	✓
7/28/2015	Ultrafilter-B cleaned	n/a	
7/29/2015	Ultrafilter-C cleaned	n/a	
7/31/2015	Power loss to Primary Settling Tank dosing pumps	n/a	✓
7/31/2015	T-500 pH probe calibrated	n/a	

**Table 1  
Operation, Maintenance, and Monitoring Log**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
7/31/2015	EW-3015 pressure transmitter replaced	transmitter failed	
7/31/2015	EW-2021 pump cleaned and replaced	n/a	
7/31/2015	EW-2101 and EW-2104 y-strainers exchanged	n/a	
7/31/2015	Influent strainer exchanged and cleaned	n/a	
8/1/2015	POTW effluent probe replaced and calibrated	Probe would not calibrate	
8/3/2015	Ultrafilter-A cleaned	n/a	
8/3/2015	Ultrafilter-A pH probe replaced and calibrated	Probe would not calibrate	
8/4/2015	EW-2001, EW-2003, and EW-2035 y-strainers cleaned	n/a	
8/4/2015	New gaskets on LCP-20-3, LCP-20-4, LCP-30-1, LCP-30-2, and LCP-30-3 installed	n/a	
8/5/2015	Caustic tote exchanged	n/a	✓
8/7/2015	Sludge finder installed at filter press feed pump panel	n/a	✓
8/7/2015	Ultrafilter-B cleaned	n/a	
8/7/2015	Plant panel A/C filters cleaned	Normal maintenance	
8/7/2015	Acid tote exchanged	n/a	
8/10/2015	New gaskets on LCP-20-1, LCP-20-2, LCP-30-6, LCP-40-1, and LCP-40-3 installed	n/a	
8/11/2015	Ultrafilter-C cleaned	n/a	
8/12/2015	Media filter effluent strainer checked	n/a	
8/13/2015	AOP-B CRU cleaned	n/a	
8/13/2015	Primary Settling Tank-B recirculation line cleaned	n/a	
8/13/2015	EW-2021 pump lowered and transducer calibrated	n/a	
8/14/2015	Ultrafilter-A cleaned	n/a	
8/14/2015	Hardness monitor solution reagent replaced	n/a	
8/14/2015	EW-2001, EW-2004, EW-2101, and EW-2102 y-strainers cleaned	n/a	
8/15/2015	Caustic tote exchanged	n/a	✓
8/16/2015	Ultrafilter-B cleaned	n/a	
8/17/2015	LIT-7002B replaced and calibrated	Level transducer damaged after storm	
8/18/2015	AOP-C CRU cleaned	n/a	
8/18/2015	Influent strainer exchanged and cleaned	n/a	
8/18/2015	Golf course line jetting performed	n/a	
8/18/2015	EW-2102 y-strainer cleaned	n/a	
8/19/2015	EW-2034 flow meter sensor prom replaced	n/a	
8/19/2015	Acid tote exchanged	n/a	
8/20/2015	Ultrafilter-C cleaned	n/a	
8/20/2015	Southern Waste Services (SWS) picked up 15 drums of filter press solids from Site	Approximately 6,000 pounds of filter press solids	
8/20/2015	LCP-15-3 UPS installed	Part of Capital Improvements	
8/20/2015	Ultrafilter-C pump seal replaced and motor balanced	Pump seal was leaking and motor was vibrating excessively	
8/20/2015	EW-2001 and EW-2004 pumps cleaned and replaced	n/a	
8/21/2015	LCP-40-1 UPS installed	Part of Capital Improvements	
8/21/2015	10 lamp pairs and 2 quartz sleeves on AOP-C installed	Lamps would not light	

**Table 1  
Operation, Maintenance, and Monitoring Log**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>Date</b>	<b>Maintenance Activity</b>	<b>Comments</b>	<b>System Downtime Event</b>
8/23/2015	Ultrafilter-A cleaned	n/a	
8/23/2015	Influent strainer exchanged and cleaned	n/a	
8/24/2015	Caustic tote exchanged	n/a	✓
8/24/2015	AOP-B1 #24 lamp driver replaced	Driver would not power up	
8/26/2015	Programming update	n/a	✓
8/26/2015	Ultrafilter-B cleaned	n/a	
8/26/2015	EW-3027 flow transmitter and communication card replaced	n/a	
8/28/2015	Ultrafilter-C cleaned	n/a	
8/28/2015	Plant panel A/C filters cleaned	Normal maintenance	
8/28/2015	Acid tote exchanged	n/a	
8/29/2015	Ultrafilter-C pH probe replaced and calibrated	Ultrafilter-C probe would not calibrate	
8/30/2015	Ultrafilter-A cleaned	n/a	
8/30/2015	POTW effluent pH probe, T-500 pH probe, T-660 pH probe, RO pH probe, and RO conductivity probes calibrated	n/a	
8/30/2015	LCP-15-4 A/C unit repaired	A/C thermostat malfunctioning	
8/30/2015	EW-2101, EW-2102, EW-3020, and EW-4010 y-strainers cleaned	n/a	

**Table 2  
Historical System Runtime**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

<b>MONTH</b>	<b>TOTAL MONTHLY (HOURS)</b>	<b>OVERALL RUNTIME TOTAL (HOURS)</b>	<b>OVERALL SYSTEM PERCENTAGE RUNTIME</b>	<b>TOTAL PLANNED DOWNTIME (HOURS)</b>	<b>TOTAL UNPLANNED DOWNTIME (HOURS)</b>	<b>ACTUAL SYSTEM PERCENTAGE RUNTIME ACCOUNTING FOR PLANNED DOWNTIME</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
November 2013	312	299	95.8%	3.0	10.0	96.8%
December 2013	744	733.3	98.6%	8.0	2.7	99.6%
January 2014	744	720.1	96.7%	2.5	21.4	97.1%
February 2014	672	659.2	98.1%	12.0	0.8	99.9%
March 2014	745	737.2	99.0%	6.8	1.0	99.9%
April 2014	720	708.3	98.4%	11.0	0.7	99.9%
May 2014	744	739.6	99.4%	2.0	2.4	99.7%
June 2014	720	717.4	99.6%	2.2	0.4	99.9%
July 2014	744	743.3	99.9%	0.7	0.0	100.0%
August 2014	744	742.6	99.8%	1.3	0.1	99.9%
September 2014	720	714.2	99.2%	5.8	0.0	100.0%
October 2014	744	701.5	94.3%	39.0	3.5	99.5%
November 2014	721	718.2	99.6%	1.4	1.4	99.8%
December 2014	744	724.6	97.4%	18.4	1.0	99.9%
January 2015	744	729.1	98.0%	14.4	0.5	99.9%
February 2015	672	664.7	98.9%	7.0	0.3	99.9%
March 2015	743	729.8	98.2%	11.5	1.7	99.8%
April 2015	720	714.2	99.2%	2.1	3.7	99.4%
May 2015	744	740.4	99.5%	0.9	2.7	99.6%
June 2015	720	706.2	98.1%	12.1	1.7	99.8%
July 2015	744	734.4	98.7%	8.6	1.0	99.9%
August 2015	744	739.5	99.4%	4.5	0.0	100.0%
<b>Cumulative Total</b>	<b>15649</b>	<b>15416.8</b>		<b>175.2</b>	<b>57.0</b>	
<b>Cumulative Average</b>			<b>98.4%</b>			<b>99.6%</b>

$C = (B/A) \times 100$

$F = [(B+D)/A] \times 100$

Table 3  
Monthly Extraction Well Volumes

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

EXTRACTION WELL	NOVEMBER 2013 (GALLONS)	DECEMBER 2013 (GALLONS)	JANUARY 2014 (GALLONS)	FEBRUARY 2014 (GALLONS)	MARCH 2014 (GALLONS)	APRIL 2014 (GALLONS)	MAY 2014 (GALLONS)	JUNE 2014 (GALLONS)	JULY 2014 (GALLONS)	AUGUST 2014 (GALLONS)	SEPTEMBER 2014 (GALLONS)	OCTOBER 2014 (GALLONS)	NOVEMBER 2014 (GALLONS)	DECEMBER 2014 (GALLONS)	JANUARY 2015 (GALLONS)	FEBRUARY 2015 (GALLONS)	MARCH 2015 (GALLONS)	APRIL 2015 (GALLONS)	MAY 2015 (GALLONS)	JUNE 2015 (GALLONS)	JULY 2015 (GALLONS)	AUGUST 2015 (GALLONS)	CUMULATIVE TOTAL (GALLONS)
EW-2001	35,256	87,780	86,376	58,474	59,300	65,000	66,100	35,400	75,000	67,500	51,900	59,800	60,000	61,800	76,900	58,400	63,700	60,600	76,700	78,500	81,400	88,900	1,454,786
EW-2002	17,093	37,200	32,500	29,900	36,400	36,700	38,400	17,000	43,600	39,400	40,800	53,000	48,500	48,300	44,300	39,600	36,700	33,600	33,500	36,000	34,500	41,300	818,293
EW-2003	44,085	109,650	107,970	33,003	51,200	51,700	58,400	29,800	53,800	55,300	60,700	61,500	61,400	61,500	55,900	48,800	52,100	47,100	46,800	50,400	42,000	55,800	1,238,908
EW-2004	9,712	20,900	18,200	17,000	21,800	22,200	25,700	28,900	28,500	23,900	25,200	34,400	29,400	27,200	23,600	22,000	22,700	19,900	20,400	21,500	20,300	24,200	507,612
EW-2005	8,811	21,927	21,594	17,918	21,300	22,500	22,500	23,800	22,200	26,600	22,000	21,400	31,600	22,800	23,600	19,700	27,700	18,000	18,000	19,700	17,200	19,300	468,150
EW-2006	24,559	51,900	41,700	39,200	45,600	43,600	42,500	10,300	48,800	42,200	42,600	57,600	52,800	51,100	42,300	38,200	40,600	35,600	37,800	38,700	53,100	59,100	939,859
EW-2007	44,055	109,695	107,970	78,483	92,900	92,100	96,800	96,700	102,400	91,500	86,900	117,400	104,700	100,400	89,600	86,900	78,100	70,500	74,200	80,000	91,400	91,400	1,958,203
EW-2008	8,910	21,909	21,757	22,200	26,300	24,200	25,000	30,100	29,100	28,000	26,100	32,000	31,000	30,200	29,600	26,900	28,500	26,300	27,200	28,000	29,100	31,700	584,076
EW-2009	17,820	43,812	43,005	39,400	45,700	43,300	45,300	47,900	46,900	44,400	41,500	49,900	48,900	47,900	46,300	42,000	44,900	43,200	45,600	45,100	48,200	49,400	970,437
EW-2010	2,710	7,800	7,500	7,000	8,700	7,500	8,000	9,900	9,000	8,800	9,400	11,200	10,300	9,900	9,400	8,500	11,200	7,500	7,900	7,500	8,100	8,900	183,010
EW-2011	591	15,258	20,277	9,700	9,500	9,300	10,000	10,400	10,200	9,500	9,400	11,100	11,100	11,100	10,500	9,500	9,800	9,200	9,800	9,700	9,900	10,900	226,726
EW-2012	8,760	21,906	20,812	8,600	11,300	10,400	11,100	11,600	11,300	8,600	9,900	7,800	6,800	5,700	5,100	9,300	3,200	3,200	4,200	4,500	4,300	4,800	190,378
EW-2013	6,285	12,500	10,700	9,700	11,900	11,800	13,200	14,300	16,300	10,400	5,600	10,100	6,400	5,700	4,600	4,800	3,600	2,300	2,900	3,900	10,200	14,200	191,385
EW-2014	23,591	50,400	45,800	41,600	41,600	48,100	53,300	52,100	49,100	48,900	60,900	58,700	57,800	50,900	48,900	44,100	39,600	39,400	40,200	39,600	45,100	45,100	1,036,091
EW-2015	8,592	20,500	17,900	15,100	16,400	16,300	17,200	19,900	19,900	22,800	22,900	24,300	18,000	20,300	18,300	16,300	17,300	15,800	15,100	15,500	15,200	17,200	390,792
EW-2016	12,350	27,800	25,500	22,100	24,100	24,000	26,600	26,400	27,200	25,100	23,900	26,600	26,900	26,600	24,400	22,700	23,600	21,600	21,100	21,700	21,800	24,400	526,450
EW-2017	34,121	71,200	54,800	39,700	41,600	43,800	50,000	53,200	56,400	52,600	52,800	63,400	62,200	61,700	56,400	50,400	51,800	47,900	47,700	49,200	49,800	57,000	1,147,721
EW-2018	16,765	36,600	31,600	27,800	30,900	29,700	31,500	31,300	31,800	29,200	28,500	34,300	33,100	33,100	30,000	26,400	26,700	25,800	24,700	24,800	24,400	26,400	635,365
EW-2019	6,669	15,100	8,700	7,500	9,100	8,800	9,100	9,100	8,200	8,500	8,000	9,300	8,000	8,100	7,300	7,200	6,800	6,500	6,500	6,500	7,300	7,300	183,269
EW-2020	7,866	18,100	14,900	12,400	13,600	13,000	13,400	13,300	13,800	13,000	12,500	15,100	14,800	14,300	12,900	11,400	12,400	11,300	10,700	11,000	10,600	11,800	282,166
EW-2021	800	6,800	4,500	5,400	4,900	4,600	5,200	5,200	4,600	4,600	5,200	6,000	7,000	6,800	5,700	5,000	8,000	4,300	4,200	4,400	4,200	8,000	117,500
EW-2022	10,328	21,500	17,500	15,000	16,600	16,200	18,100	18,100	18,100	16,500	15,400	18,000	18,300	18,800	16,400	16,100	14,400	13,800	14,000	14,000	12,800	14,200	358,928
EW-2023	5,393	12,000	11,200	9,900	10,900	10,300	10,900	10,000	11,200	10,900	9,600	14,800	14,900	14,200	13,000	13,500	12,600	12,800	13,500	13,200	15,700	15,700	263,993
EW-2024	5,570	12,900	11,800	9,900	10,700	10,200	10,500	9,900	10,100	9,100	8,600	10,300	10,100	10,000	9,200	8,400	8,800	7,900	7,500	7,600	7,500	8,400	204,970
EW-2025	17,715	36,800	36,500	29,300	30,200	28,300	27,300	20,900	21,200	23,500	22,600	22,200	25,700	42,500	33,000	23,200	30,000	27,000	26,800	28,600	31,200	36,700	621,215
EW-2026	14,186	27,800	23,200	19,100	22,500	23,100	30,400	30,400	32,300	31,200	34,400	42,200	42,000	42,000	33,400	33,400	33,400	31,100	30,800	31,000	33,600	37,000	674,886
EW-2027	18,298	42,100	38,100	33,500	37,100	36,400	37,700	37,200	36,900	34,000	33,500	38,200	37,400	37,300	35,200	32,300	33,700	31,300	30,800	31,200	34,600	37,300	764,098
EW-2028	21,424	49,500	45,300	39,400	40,600	41,400	42,300	41,000	40,600	37,400	36,600	41,600	40,500	39,800	37,300	36,700	35,000	32,400	31,800	32,200	31,500	34,500	828,424
EW-2029	20,836	46,700	42,100	36,700	42,200	41,500	43,300	42,100	42,300	39,400	38,800	44,900	44,300	43,600	41,100	36,900	38,400	35,600	34,600	34,700	36,600	39,600	866,236
EW-2030	34,737	77,000	69,400	60,700	67,800	66,800	69,500	69,200	69,200	64,200	63,200	73,800	73,800	70,300	64,000	66,500	60,800	59,700	60,400	59,600	65,300	64,400	1,439,637
EW-2031	36,341	76,800	65,500	57,400	64,700	66,100	55,800	51,100	55,500	66,400	63,900	77,700	75,500	73,500	67,200	60,200	63,000	55,900	55,000	59,200	57,300	64,400	1,368,441
EW-2032	12,741	27,900	23,800	17,800	20,300	19,100	19,800	18,900	18,500	18,800	18,700	18,400	18,100	18,700	18,800	18,500	23,500	21,500	20,700	21,000	20,800	22,800	439,141
EW-2033	10,962	24,300	21,600	17,500	19,700	19,000	19,800	18,800	19,000	21,700	19,700	22,300	22,500	21,800	20,800	19,600	22,400	20,900	20,400	20,800	22,700	24,900	451,162
EW-2034	17,928	43,800	33,170	21,800	24,800	25,300	26,000	6,400	25,700	30,300	27,300	34,200	31,400	24,700	17,000	14,600	28,800	26,500	27,300	27,700	29,400	29,500	573,688
EW-2035	56,427	121,600	106,500	109,200	126,000	124,000	120,700	111,600	112,300	117,100	103,900	118,000	123,200	118,000	91,300	51,200	18,100	0	0	0	0	0	1,843,727
EW-2036	8,655	21,903	22,237	26,400	27,700	35,400	33,700	35,300	30,900	24,000	23,300	38,100	32,300	29,000	26,000	27,100	26,100	23,000	24,800	26,200	30,300	37,000	609,395
EW-2037	23,330	55,400	52,400	45,500	51,200	59,700	47,400	45,500	51,200	43,400	38,200	52,800	51,000	49,600	44,800	42,800	47,700	43,200	42,700	43,000	41,100	44,900	1,032,430
EW-2101	200,735	594,700	613,300	459,800	434,600	401,400	483,200	602,500	604,100	632,700	635,300	557,800	381,100	274,700	291,000	263,400	650,800	774,400	714,100	686,700	716,200	983,500	11,956,035
EW-2102	228,457	654,900	757,300	593,000	647,500	560,100	625,400	745,000	790,100	811,500	734,000	631,800	577,900	612,300	529,900	621,400	751,000	768,100	677,600	652,700	605,300	738,000	14,313,257
EW-2103	402,915	1,149,100	1,499,200	1,317,900	1,488,600	1,423,500	1,065,200	254,300	270,300	267,300	259,500	257,200	319,600	562,700	468,200	381,500	199,000	332,600	218,900	214,000	224,400	223,000	12,798,915
EW-2104	305,644	812,900	1,315,400	1,210,700	1,357,600	1,403,700	1,550,100	1,591,100	1,919,400	1,926,500	1,737,500	1,785,300	1,928,000	1,866,700	1,732,300	1,549,600	1,664,700	1,655,300	1,646,100	1,896,500	1,847,600	1,969,900	34,672,544
EW-3001	2,264	7,200	7,200	5,000	5,200	4,800	2,900	1,100	700	0	4,800	2,900	1,100	900	600	1,100	200	0	0	0	0	0	43,464
EW-3002	9,767	14,700	18,200	17,400	19,400	18,900	18,200	17,800	18,200	15,700	16,600	17,600	19,000	16,500	15,500	18,300	14,800	7,600	3,100	9,000	6,200	19,400	331,867
EW-3003	11,487	21,100	14,200	16,100	17,100	18,300	11,100	3,500	17,100	7,100	500	500	100	400	200	500	0	0	100	0	100	0	143,887





**Table 5  
Analytical Results - System Effluent**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Sample ID					RO Permeate	POTW Effluent	RO Permeate	RO Permeate	POTW Effluent	RO Permeate	POTW Effluent	RO Permeate	POTW Effluent
Sample Collection Date					10/7/2014	11/7/2014	1/8/2015	1/16/2015	2/6/2015	4/6/2015	5/5/2015	7/6/2015	8/4/2015
Laboratory Order Number					660-63251-1	660-63851-1	660-64756-1	660-64927-1	660-65317-1	660-66294-1	660-66690-1	660-67787-1	660-68372-1
Parameter	Reporting Units	MCUO Discharge Permit Limits	Surface Water Quality Criteria	62-777 GW Criteria									
<b>Volatiles by 8260B</b>													
1,1-Dichloroethane	ug/l	70	--	70	0.52U	0.52U	0.52U	NA	0.52U	0.52U	0.52U	0.52U	0.52U
1,1-Dichloroethene	ug/l	7	3.2	7 **	0.45U	0.45U	0.67U	NA	0.67U	0.67U	0.67U	0.67U	0.67U
cis-1,2-Dichloroethene	ug/l	70	--	70	0.65U	0.65U	0.65U	NA	0.65U	0.65U	0.65U	0.65U	0.65U
Tetrachloroethene	ug/l	3	8.85	3	0.50U	0.50U	0.50U	NA	0.50U	0.50U	0.50U	0.50U	0.50U
Trichloroethene	ug/l	3	80.7	3	0.50U	0.50U	0.61U	NA	0.61U	0.61U	0.61U	0.61U	0.61U
Vinyl chloride	ug/l	1	2.4	1	0.50U	0.50U	0.71U	NA	0.71U	0.71U	0.71U	0.71U	0.71U
<b>Volatiles by 8260C SIM</b>													
1,4-Dioxane	ug/l	Report	120	3.2	1.0U	1.0U	1.0U	NA	<b>6.2</b>	1.0U	<b>6.2</b>	1.0U	<b>5.5</b>
<b>Metals by 6010B</b>													
Aluminum	ug/l	Report	13	200	2.6U	50U	2.6U	NA	50U	2.6U	50U	2.6U	50U
Arsenic	ug/l	2510	50	10	0.29U	4.0U	<b>4.7</b>	NA	4.0U	0.29U	4.0U	0.29U	4.0U
Beryllium	ug/l	4	0.13	4	0.037U	0.50U	0.037U	NA	0.50U	0.037U	0.50U	0.037U	0.50U
Cadmium	ug/l	730	1.2	5	0.11U	1.0U	0.11U	NA	1.0U	0.11U	1.0U	0.11U	1.0U
Chromium	ug/l	9900	11	100	0.54U	2.0U	0.54U	<b>1.7I</b>	2.0U	<b>9.8</b>	2.0U	0.54U	2.0U
Copper	ug/l	28480	10.1	1000	0.24U	2.9U	<b>0.54I</b>	NA	2.9U	<b>0.34I</b>	2.9U	0.24U	2.5U
Lead	ug/l	1870	3.6	15	0.019U	2.0U	<b>0.029I V</b>	NA	2.0U	0.019U	<b>2.9I</b>	<b>0.061I</b>	2.2U
Molybdenum	ug/l	1260	3.6	35	NA	4.0U	NA	NA	4.0U	NA	4.0U	NA	6.4U
Nickel	ug/l	11080	56.5	100	<b>0.17I</b>	2.0U	<b>0.36I</b>	NA	2.0U	0.17U	2.0U	<b>0.17I</b>	2.0U
Sodium	mg/l	NA	--	160	<b>5.2</b>	<b>110</b>	<b>5.5</b>	NA	<b>110</b>	<b>7.1</b>	<b>110</b>	<b>5.7</b>	<b>98</b>
Zinc	ug/l	4780	129.9	5000	<b>3.2I</b>	5.0U	<b>5.1V</b>	NA	5.0U	<b>1.1I</b>	5.0U	<b>1.2I</b>	<b>9.6I</b>
<b>Wet Chemistry by SM 2540C</b>													
Total Dissolved Solids	mg/l	NA	--	500	NT	NA	5.0U	NT	NA	<b>5.0U</b>	NA	5.0U	NA
<b>HPLC/IC by 300.00</b>													
Chloride	mg/l	NA	--	250	NT	NA	<b>0.76</b>	NT	NA	<b>1.5</b>	NA	<b>1.1</b>	NA
Sulfate	mg/l	NA	--	250	NT	NA	<b>0.43i</b>	NT	NA	<b>1.9</b>	NA	<b>0.77I</b>	NA

**Notes:**

mg/l - milligrams per liter

ug/l - micrograms per liter

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

NA - not applicable

U - Indicates that the compound was analyzed for but not detected.

UJ - The compound was not detected above the reported sample quantitation limit; however, the reported concentration is approximate and may not represent the actual limit of quantitation.

-- - no criteria

\*\* As Provided in Chapter 62-302, F.A.C.

Shaded - Concentration exceeds the Groundwater Cleanup Target Level (GCTL)

**Table 6**  
**RAPA Table 10-3 Effluent Limitations For MCUO, GCTL, and Surface Water Quality Criteria**

**Remedial Action Status Report**  
**October, 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

<b>Parameter</b>	<b>Unit</b>	<b>MCUO IUD Permit #IW 0025S Effluent Limitation</b>	<b>GCTL</b>	<b>Surface Water Quality Criteria</b>
pH	SU	5-11.5	--	--
1,4-dioxane	mg/L	Report	0.0032	0.12
TCE	mg/L	0.003	0.003	0.0807
PCE	mg/L	0.003	0.003	0.00885
1,1-DCE	mg/L	0.007	0.007	0.0032
1,1-DCA	mg/L	0.07	0.07	--
cis-1,2-DCE	mg/L	0.07	0.07	--
Vinyl chloride	mg/L	0.001	0.001	0.0024
<b>Metals</b>				
Aluminum	mg/L	Report	0.2	0.013
Arsenic	mg/L	2.51	0.01	0.05
Beryllium	mg/L	0.004	0.004	0.00013
Cadmium	mg/L	0.73	0.005	0.0012 <sup>2</sup>
Chromium	mg/L	9.9	0.1	0.011
Copper	mg/L	28.48	1	0.0101 <sup>2</sup>
Nickel	mg/L	11.08	0.1	0.0565 <sup>2</sup>
Lead	mg/L	1.87	0.015	0.0036 <sup>2</sup>
Zinc	mg/L	4.78	5	0.1299 <sup>2</sup>
Sodium	mg/L	NA	160	--
<b>Other Parameters 1/</b>				
Chloride	mg/L	NA	250	--
Sulfate	mg/L	NA	250	--
TDS	mg/L	NA	500	--

1 \_\_\_ Secondary water-quality standard, Chapter 62-550 F.A.C.

2 - Calculated based on estimated hardness of receiving water.

NA - not applicable

"--" = no criteria

mg/L = milligrams per Liter

**Table 7  
Analytical Results - Process Monitoring**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Sample Date	Stream	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC	1,4-dioxane
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>MANATEE COUNTY DISCHARGE PERMIT CRITERIA</b>	70	7	70	3	3	1	Report
9/15/2014	AOP Feed	13	19	36	11	20	0.88I	91
	AOP-A Effluent	9.5	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	2.3
	AOP-B Effluent	10	< 0.45	< 0.65	0.66I	0.60I	< 0.50	6.7
	AOP-C Effluent	9.6	< 0.45	0.80I	0.75I	0.75I	< 0.50	9.2
	Primary GAC Effluent	4.6	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	5.8
	Secondary GAC Effluent	< 0.52	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	5.4
9/26/2014	AOP Feed	11	16	33	9.1	18	0.90I	96
	AOP-A Effluent	8.5	< 0.45	< 0.65	0.57I	< 0.50	< 0.50	4.6
	AOP-B Effluent	8.9	< 0.45	< 0.65	0.76I	0.59I	< 0.50	9.2
	AOP-C Effluent	8.6	< 0.45	0.65I	0.87I	0.68I	< 0.50	8.8
	Primary GAC Effluent	5.8	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	5.1
	Secondary GAC Effluent	< 0.52	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	6.5
10/8/2014	AOP Feed	13	23	34	10	21	1.2	86
	AOP-A Effluent	8.9	< 0.45	< 0.65	0.51I	< 0.50	< 0.50	3.5
	AOP-B Effluent	9.4	< 0.45	< 0.65	0.79I	0.65I	< 0.50	5.9
	AOP-C Effluent	9.4	< 0.45	< 0.65	0.77I	0.66I	< 0.50	6.7
	Primary GAC Effluent	7.9	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	6.6
	Secondary GAC Effluent	< 0.52	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	6.9
10/24/2014	AOP Feed	13	20	34	9.2	22	1.6	80
	AOP-A Effluent	9.2	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	3.5
	AOP-B Effluent	7.7	< 0.45	< 0.65	< 0.50	0.50I	< 0.50	5.3
	AOP-C Effluent	10	< 0.45	< 0.65	0.63I	0.80I	< 0.50	7.6
	Primary GAC Effluent	9.1	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	5.2
	Secondary GAC Effluent	< 0.52	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	6.6
11/7/2014	AOP Feed	14	19	37	10	21.0	1.3	95.0
	AOP-A Effluent	9.0	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	2.5
	AOP-B Effluent	9.3	< 0.45	< 0.65	0.80I	0.62I	< 0.50	7.4
	AOP-C Effluent	9.9	< 0.45	< 0.65	0.74I	0.68I	< 0.50	7.7
	Primary GAC Effluent	2.0	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	7.3
	Secondary GAC Effluent	< 0.52	< 0.45	< 0.65	< 0.50	< 0.50	< 0.50	6.9

**Table 7  
Analytical Results - Process Monitoring**

**Remedial Action Status Report  
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Lockheed Martin Tallevast Site  
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Sample Date	Stream	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC	1,4-dioxane
11/21/2014	AOP Feed	13	18	36	11	22	1.3	130
	AOP-A Effluent	9.4	< 0.67	< 0.65	0.76I	0.78I	< 0.71	8.5
	AOP-B Effluent	9.4	< 0.67	1	1.1	1.3	< 0.71	13
	AOP-C Effluent	9.6	< 0.67	0.89	1.1	1	< 0.71	13.0
	Primary GAC Effluent	2.4	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	7.5
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	8.2
12/5/2014	AOP Feed	13	21	31	14	22	1.4	73
	AOP-A Effluent	9.9	< 0.67	< 0.65	0.78I	< 0.61	< 0.71	3.9
	AOP-B Effluent	10	< 0.67	< 0.65	1.1	0.76I	< 0.71	7.6
	AOP-C Effluent	8.7	< 0.67	0.69I	1.1	0.84I	< 0.71	7.5
	Primary GAC Effluent	4.0	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.2
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.9
12/19/2014	AOP Feed	12	21	33	12	22	1.4	88
	AOP-A Effluent	9.1	< 0.67	< 0.65	0.72I	< 0.61	< 0.71	5.8
	AOP-B Effluent	9.5	< 0.67	< 0.65	1.0	< 0.61	< 0.71	7
	AOP-C Effluent	9.1	< 0.67	< 0.65	1.1	0.79I	< 0.71	9.9
	Primary GAC Effluent	5.2	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.2
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.7
1/5/2015	AOP Feed	11	19	31	11	17	1.0	83
	AOP-A Effluent	8.5	< 0.67	< 0.65	0.53I	< 0.61	< 0.71	3.8
	AOP-B Effluent	7.8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.4
	AOP-C Effluent	8.5	< 0.67	0.84I	0.75I	0.78I	< 0.71	9.6
	Primary GAC Effluent	8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	9.3
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.3
1/16/2015	AOP Feed	10	19	31	9.1	16	1.4	67
	AOP-A Effluent	7.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	1.2I
	AOP-B Effluent	8.2	< 0.67	0.76I	0.74I	< 0.61	< 0.71	5.1
	AOP-C Effluent	8.3	< 0.67	0.80I	0.68I	0.94I	< 0.71	9.7
	Primary GAC Effluent	7.5	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.3
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.9
1/27/2015	AOP Feed	13	17	31	12	20	2.1	86
	AOP-A Effluent	9.1	< 0.67	< 0.65	0.65I	< 0.61	< 0.71	4.5
	AOP-B Effluent	7.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.3
	AOP-C Effluent	11	< 0.67	< 0.65	0.90I	0.83I	< 0.71	8.0
	Primary GAC Effluent	9.1	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.6
	Secondary GAC Effluent	0.92I	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.5

**Table 7  
Analytical Results - Process Monitoring**

**Remedial Action Status Report  
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Lockheed Martin Tallevast Site  
Tallevast, Florida**

Sample Date	Stream	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC	1,4-dioxane
2/17/2015	AOP Feed	10	20	26	11	17	1.3	79
	AOP-A Effluent	6.4	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.2
	AOP-B Effluent	6.9	< 0.67	< 0.65	0.68I	< 0.61	< 0.71	3.9
	AOP-C Effluent	7.0	< 0.67	0.86I	0.83I	0.83I	< 0.71	11.0
	Primary GAC Effluent	2.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.7
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	8.0
2/27/2015	AOP Feed	11	16	13	9.9	24	< 0.71	75
	AOP-A Effluent	7.8	< 0.67	< 0.65	0.51I	< 0.61	< 0.71	2.8
	AOP-B Effluent	7.4	< 0.67	< 0.65	0.52I	< 0.61	< 0.71	4.3
	AOP-C Effluent	7.6	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.1
	Primary GAC Effluent	3.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.9
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.3
3/16/2015	AOP Feed	9.6	14	25	5.7	15	1.8	67
	AOP-A Effluent	7.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.4
	AOP-B Effluent	7	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.1
	AOP-C Effluent	7.4	< 0.67	< 0.65	0.51I	< 0.61	< 0.71	5.7
	Primary GAC Effluent	5.5	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.1
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.1
3/27/2015	AOP Feed	11	16	29	12	16	2.5	69
	AOP-A Effluent	8.2	< 0.67	< 0.65	< 0.67I	< 0.61	< 0.71	3.2
	AOP-B Effluent	8	< 0.67	< 0.65	1.1	< 0.61	< 0.71	4.9
	AOP-C Effluent	8.1	< 0.67	0.92I	1.2	0.78I	< 0.71	9.0
	Primary GAC Effluent	6	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.2
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.1
4/10/2015	AOP Feed	9.3	16	24	8.3	15	1.5	69
	AOP-A Effluent	6.9	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	2.9
	AOP-B Effluent	7.2	< 0.67	< 0.65	0.70I	< 0.61	< 0.71	5.5
	AOP-C Effluent	6.7	< 0.67	< 0.65	0.64I	< 0.61	< 0.71	5.3
	Primary GAC Effluent	0.90I	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.1
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.0
4/28/2015	AOP Feed	9.9	17	25	8.8	15	1.6	68
	AOP-A Effluent	6.7	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.1
	AOP-B Effluent	6.6	< 0.67	< 0.65	0.70I	< 0.61	< 0.71	5.7
	AOP-C Effluent	6.9	< 0.67	< 0.65	0.68I	< 0.61	< 0.71	7.2
	Primary GAC Effluent	3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.6

**Table 7  
Analytical Results - Process Monitoring**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Sample Date	Stream	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC	1,4-dioxane
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.1
5/15/2015	AOP Feed	8.0	13.0	25	6.9	13	1.8	70
	AOP-A Effluent	6.0	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.0
	AOP-B Effluent	5.9	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.9
	AOP-C Effluent	6.0	< 0.67	< 0.65	0.56I	< 0.61	< 0.71	7.1
	Primary GAC Effluent	3.7	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.0
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.9
6/1/2015	AOP Feed	8.7	15.0	27	6.5	13	1.4	65
	AOP-A Effluent	5.8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.7
	AOP-B Effluent	6.1	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.5
	AOP-C Effluent	6.2	< 0.67	0.65I	< 0.50	< 0.61	< 0.71	9.6
	Primary GAC Effluent	5.0	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.0
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.1
6/12/2015	AOP Feed	8.8	16.0	25	7.8	14	1.2	71
	AOP-A Effluent	6.3	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.1
	AOP-B Effluent	6.1	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.4
	AOP-C Effluent	5.8	< 0.67	< 0.65	0.53I	< 0.61	< 0.71	5.5
	Primary GAC Effluent	5.9	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.4
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.1
7/1/2015	AOP Feed	7.3	12.0	23	6.2	11	1.4	62
	AOP-A Effluent	5.8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	4.0
	AOP-B Effluent	5.9	< 0.67	< 0.65	0.54I	< 0.61	< 0.71	6.0
	AOP-C Effluent	5.6	< 0.67	< 0.65	0.69I	< 0.61	< 0.71	6.5
	Primary GAC Effluent	0.98I	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.1
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.7
7/17/2015	AOP Feed	7.6	12	24.0	7.0	12	1.2	77
	AOP-A Effluent	5.1	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	2.7
	AOP-B Effluent	4.8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.3
	AOP-C Effluent	5	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	7.5
	Primary GAC Effluent	1.4	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	7.7
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.0
7/31/2015	AOP Feed	7.2	12.0	22	6.3	11	1.5	64
	AOP-A Effluent	5.8	< 0.67	< 0.65	0.60I	< 0.61	< 0.71	4.4
	AOP-B Effluent	5.7	< 0.67	0.67I	0.74I	< 0.61	< 0.71	6.6
	AOP-C Effluent	5.7	< 0.67	0.67I	0.55I	< 0.61	< 0.71	6.9

**Table 7  
Analytical Results - Process Monitoring**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Sample Date	Stream	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC	1,4-dioxane
	Primary GAC Effluent	1.8	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.4
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	5.6
8/17/2015	AOP Feed	7.1	11	18.0	6.2	14	1.4	62
	AOP-A Effluent	5.5	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	3.5
	AOP-B Effluent	5.5	< 0.67	< 0.65	0.70I	0.64I	< 0.71	6.5
	AOP-C Effluent	5.5	< 0.67	1.1	0.71I	1.2	< 0.71	12.0
	Primary GAC Effluent	2.6	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	7.2
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	7.1
8/28/2015	AOP Feed	8.0	14.0	23	7.9	14	1.2	60
	AOP-A Effluent	6.3	< 0.67	< 0.65	0.61I	< 0.61	< 0.71	7.0
	AOP-B Effluent	6.5	< 0.67	1.0	0.94I	0.99I	< 0.71	9.5
	AOP-C Effluent	6.3	< 0.67	1.2	0.83I	1.1	< 0.71	11.0
	Primary GAC Effluent	4.1	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.7
	Secondary GAC Effluent	< 0.52	< 0.67	< 0.65	< 0.50	< 0.61	< 0.71	6.5

Notes:

ug/l - micrograms/liter

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

< - Indicates that the compound was analyzed for but not detected.

\* As Provided in Chapter 62-520, F.A.C.

\*\* As Provided in Chapter 62-302, F.A.C.

\*\*\* Equals to 10 times the value provided in Chapter 62-520, F.A.C.





**Table 9  
Groundwater Volumes Extracted, Treated, and Discharged**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Flow Meter Reading Date	Combined Influent (FIT-100)		POTW Effluent (FIT-500)		Injection Wells Flow Totals	
	Period of Performance Total (gallons)	Cumulative Total (gallons)	Period of Performance Total (gallons)	Cumulative Total (gallons)	RC-6001, RC-6002, RC-6003, RC-6004, RC-6005	
November 2013	2,850,400	2,850,400	2,861,400	2,861,400	0	
December 2013	7,062,100	9,912,500	7,090,800	9,952,200	0	
January 2014	7,673,500	17,586,000	7,709,500	17,661,700	0	
February 2014	6,739,600	24,325,600	6,768,000	24,429,700	0	
March 2014	7,495,000	31,820,600	7,530,800	31,960,500	0	
April 2014	7,301,200	39,121,800	7,338,800	39,299,300	0	
May 2014	7,381,700	46,503,500	7,389,400	46,688,700	0	
June 2014	6,684,500	53,188,000	6,697,200	53,385,900	0	
July 2014	7,569,600	60,757,600	7,248,100	60,634,000	0	
August 2014	7,512,100	68,269,700	6,684,100	67,318,100	0	
September 2014	6,930,300	75,200,000	6,266,300	73,584,400	0	
October 2014	7,067,100	82,267,100	6,949,500	80,533,900	0	
November 2014	6,941,000	89,208,100	6,669,700	87,203,600	0	
December 2014	7,027,600	96,235,700	6,647,300	93,850,900	0	
January 2015	6,624,400	102,860,100	6,193,300	100,044,200	0	
February 2015	5,995,800	108,855,900	5,739,900	105,784,100	0	
March 2015	6,680,200	115,536,100	6,396,300	112,180,400	0	
April 2015	6,523,900	122,060,000	5,827,100	118,007,500	0	
May 2015	6,512,700	128,572,700	5,730,000	123,737,500	0	
June 2015	6,546,600	135,119,300	5,738,400	129,475,900	0	
July 2015	6,528,400	141,647,700	5,516,300	134,992,200	0	
August 2015	7,258,200	148,905,900	6,575,800	141,568,000	0	
Flow Meter Reading Date	Infiltration Gallery Flow Totals					
	RC-7001 (19th Street North)		RC-7002 (Parcels 66 and 67)		RC-7003 (Waste Pro)	
	Period of Performance Total (gallons)	Cumulative Total (gallons)	Period of Performance Total (gallons)	Cumulative Total (gallons)	Period of Performance Total (gallons)	Cumulative Total (gallons)
November 2013	0	0	0	0	0	0
December 2013	0	0	0	0	0	0
January 2014	0	0	0	0	0	0
February 2014	0	0	0	0	0	0
March 2014	0	0	0	0	0	0
April 2014	0	0	0	0	0	0
May 2014	0	0	0	0	0	0
June 2014	0	0	0	0	0	0
July 2014	0	0	320,300	320,300	0	0
August 2014	0	0	830,900	1,151,200	0	0
September 2014	0	0	662,400	1,813,600	0	0
October 2014	0	0	120,200	1,933,800	0	0
November 2014	0	0	284,500	2,218,300	0	0
December 2014	0	0	390,600	2,608,900	0	0
January 2015	0	0	430,500	3,039,400	0	0
February 2015	0	0	278,400	3,317,800	0	0
March 2015	0	0	320,100	3,637,900	0	0
April 2015	0	0	733,900	4,371,800	0	0
May 2015	0	0	822,700	5,194,500	0	0
June 2015	0	0	863,500	6,058,000	0	0
July 2015	0	0	1,061,400	7,119,400	0	0
August 2015	0	0	740,300	7,859,700	0	0





TABLE 10  
2015 Groundwater Elevation Data

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Well ID	Zone	Total Well Depth (ft bgs)	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Top of Inner Casing (ft msd)	December 3, 2013			January 9, 2014			February 4, 2014			March 6, 2014			April 8, 2014			May 6, 2014			August 6, 2014			November 5, 2014			February 3, 2015			August 5, 2015							
						Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)	Time (24 hr)	Depth to Water (ft to c)	Water Elevation (ft msd)					
MW-248	AF Gravels	113.4	103.4	113.4	26.57	14.34	23.27	3.30	10/02	26.85	-0.28	9/42	26.06	0.51	9/39	26.28	0.29	8/33	25.26	1.31	10/17	28.02	-1.45	10/37	30.14	-3.57	10/21	26.93	-0.36	10/34	28.30	-1.73	9/52	29.05	-2.48					
MW-249	AF Gravels	98	88	98	22.60	7.44	17.71	4.89	9/25	19.45	2.15	9/18	17.21	5.39	9/20	18.06	4.54	7/30	16.38	6.23	9/57	17.90	4.70	9/20	18.35	4.25	10/25	17.07	5.53	NM	NM	NM								
MW-250	AF Gravels	NA	90	100	24.83	7.51	24.72	0.11	9/40	25.40	-0.57	9/22	23.85	0.98	9/25	24.31	0.52	7/33	22.95	1.88	10/00	24.83	0.00	10/10	25.79	-0.96	10/28	24.21	0.62	NM	NM	NM								
MW-251	Floridan	400	380	400	27.37	NM	NM	NM	NM	380	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7/20	11.06	16.31	NM	NM	NM	NM	8/16	8/78	18/59						
MW-252	S&P Sands	155	145	155	32.23	9/29	30.35	1.88	9/42	31.78	0.45	8/50	31.81	0.42	8/46	31.74	0.49	8/49	30.98	1.25	9/41	32.10	0.13	10/28	32.25	-0.02	10/13	26.57	5.66	10/00	26.87	5.36	11/08	29/23	3/00					
MW-253	AF Gravels	110	100	110	32.16	10/06	31.08	1.08	9/55	33.55	-1.39	9/36	33.98	-1.82	8/40	34.03	-1.87	8/38	33.18	-1.02	9/15	34.58	-2.42	8/58	36.26	-4.10	9/30	33.98	-1.82	8/53	35.03	-2.87	13/36	35/93	-3/77					
MW-254 (MW-BT-1)	LSAS	29.5	24	29	31.08	10/99	30.09	10/46	11/83	19/25	10/16	12/16	18/92	8/51	12/42	18/66	8/48	11/24	19/34	9/54	11/61	19/47	9/20	12/09	18/99	8/29	11/74	19/34	9/28	12/72	18/36	14/47	13/01	18/07						
MW-255	AF Gravels	100	90	100	24.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10/15	21.21	3/04	NM	NM	NM	NM	NM	NM							
PZ-LSAS-1	LSAS	35.45	30	35	31.12	NM	NM	NM	NM	31.12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9/32	18.14	12/98	NM	NM	NM	NM	15/03	17/75	13/37						
PZ-LSAS-2	LSAS	36.67	27.67	36.67	31.44	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9/53	18.69	12.75	NM	NM	NM	NM	14/34	18/60	12/84						
PZ-LSAS-4	LSAS	35.44	30	35	31.60	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9/48	17.72	13.88	NM	NM	NM	NM	14/28	17/91	13/69						
PZ-LSAS-5	LSAS	32.87	28.3	33.3	31.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9/49	17.60	14.01	NM	NM	NM	NM	14/26	17/64	13/97						
PZ-LSAS-6	LSAS	35.75	30	35	32.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10/47	22.72	10.01	NM	NM	NM	NM	13/49	23/40	9/33						
PZ-LSAS-7	LSAS	31.4	26.4	31.4	32.06	9/44	13/90	18.16	10/34	15/96	16.10	10/03	14/19	17/87	9/05	15/17	16/89	9/00	14/33	17/73	9/35	14/26	17/80	9/45	9/00	17/08	9/11	14/76	17/30	9/30	16/46	14/13	15/12	16/94						
PZ-USAS-01	USAS	24.5	19.5	24.5	24.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/51	7/19	17/28						
PZ-USAS-02	USAS	30	20	30	30.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7/38	8/07	22/07	7/23	9/71	20/43	8/06	11/49	18/65		
PZ-USAS-03	USAS	26	21	26	28.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/30	5/98	22/25	13/16	5/41	22/6			
PZ-USAS-04	USAS	24	14	24	23.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/18	4/23	19/16	9/08	4/58	18/81	9/46	3/06	20/33		
PZ-USAS-05	USAS	23	13	23	23.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/21	5/44	18/28	9/13	5/98	17/74	9/48	4/70	19/02			
PZ-USAS-06	USAS	24	14	24	24.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/32	3/95	20/48	9/37	4/34	20/09	10/04	2/95	21/48		
PZ-USAS-07	USAS	22	12	22	23.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11/14	5/28	18/45	18/45			
PZ-USAS-08	USAS	27	22	27	22.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/09	6/32	16/60	9/43	4/98	17/72		
PZ-USAS-09	USAS	26	21	26	22.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/15	7/32	15/72	9/50	6/44	16/38		
PZ-USAS-10	USAS	26	18.5	26	24.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/34	4/61	19/85	10/06	3/20	21/04			
PZ-USAS-11	USAS	22	17	22	21.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/17	8/01	13/98	11/08	7/52	14/25		
PZ-USAS-12	USAS	26	16	26	23.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/56	8/03	15/87	9/55	7/59	16/09		
PZ-USAS-13	USAS	30	20	30	30.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7/28	9/61	21/29	8/15	9/39	21/29			
PZ-USAS-14	USAS	34	24	34	29.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7/25	9/16	20/15	8/99	12/39	16/8			
PZ-USAS-15	USAS	36	26	36	25.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/17	5/32	19/96	14/45	5/17	19/89	
PZ-USAS-16	USAS	14	4	14	24.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/19	2/85	21/99	14/36	4/12	20/5		
PZ-USAS-17	USAS	38	28	38	24.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/34	3/02	21/48	10/20	2/85	21/65	14/37	4/10	20/4
PZ-USAS-18	USAS	40	30	40	24.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/36	2/76	21/27	10/24	3/30	20/73	14/28	3/88	20/15
PZ-USAS-19	USAS	35	25	35	23.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/26	3/11	20/80	14/31	3/80	19/89		
PZ-USAS-20	USAS	30	20	30	24.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10/40	3/75	20/84	10/30	4/67	19/92	14/21	4/91	19/68
RW-1	USAS	NA	15	20	31.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10/41	9/03	22/95	NM	NM	NM	NM	NM	NM	NM	13/58	10/23	21/75		
RW-2	USAS	NA	15	20	31.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9/33	8/71	22/56	NM	NM	NM	NM	NM	NM	NM	15/05	9/72	21/55		
Stilling Well-1R	Surface	NR																																						

**Table 11  
Monitoring Program Sampling Locations**

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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
<b>Monitoring Wells</b>											
DW-1	1/15/2002	Clay/Sand Zone 1	x								
IWI-1	9/2/2005	AF Gravels	x	x		x		x			
IWI-2	9/12/2005	Clay/Sand Zone 3 & 4	x	x							
MW-3	2/1/2001	USAS	x			x					Removed from UIC monitoring in 2014 RASR
MW-4	2/1/2001	USAS	x			x					Removed from UIC monitoring in 2014 RASR
MW-5	2/1/2003	USAS	x			x					
MW-6	2/1/2003	USAS	x			x					
MW-8D	2/1/2003	USAS	x	x		x					
MW-8S	2/1/2003	USAS	x								
MW-9D	2/1/2003	USAS	x	x		x					
MW-9S	2/1/2003	USAS	x								
MW-10	2/1/2003	USAS	x			x					
MW-11R	1/30/2015	USAS	x	x		x					Replacement installed Jan 2015
MW-12	2/1/2003	USAS	x			x					
MW-13D	2/1/2003	USAS	x	x		x					
MW-13S	2/1/2003	USAS	x								
MW-14D	2/1/2003	USAS	x			x					
MW-14S	2/1/2003	USAS	x								
MW-15D	2/1/2003	USAS	x	x		x					
MW-15S	2/1/2003	USAS	x								
MW-16D	2/1/2003	USAS	x	x		x					
MW-16S	2/1/2003	USAS	x								
MW-17D	10/1/2003	USAS	x	x		x					
MW-17S	10/1/2003	USAS	x								
MW-18D	10/1/2003	USAS	x			x					
MW-18S	10/1/2003	USAS	x								
MW-19	11/22/2004	Lower AF Sands	x	x		x		x			
MW-20	12/1/2004	USAS	x	x		x					
MW-21	12/4/2004	S&P Sands	x	x							
MW-22	12/17/2004	Lower AF Sands	x	x		x					
MW-23	12/6/2004	S&P Sands	x	x		x		x			
MW-24	12/17/2004	USAS	x	x		x					
MW-25	12/17/2004	USAS	x	x		x					
MW-26	12/18/2004	USAS	x	x		x					
MW-27	12/17/2004	USAS	x	x		x		x			
MW-28	12/17/2004	USAS	x	x							
MW-29	12/17/2004	USAS	x	x		x		x			
MW-30	12/15/2004	USAS	x	x		x					
MW-31	12/15/2004	Lower AF Sands	x	x							
MW-32	12/18/2004	USAS	x	x		x		x			Removed from UIC monitoring per 2014
MW-33	12/18/2004	LSAS	x	x		x		x			Removed from UIC monitoring in 2014 RASR
MW-34	12/20/2004	S&P Sands	x	x		x		x			
MW-35	12/16/2004	USAS	x	x		x		x			
MW-36	1/8/2005	USAS	x	x		x		x			Removed from UIC monitoring in 2014 RASR

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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
MW-37	12/19/2004	LSAS	x	x		x		x	x		
MW-38	1/8/2005	USAS	x	x		x			x		
MW-39	12/19/2004	LSAS	x	x		x			x		
MW-40	1/8/2005	USAS	x	x		x		x			Removed from UIC monitoring in 2014 RASR
MW-41	12/21/2004	LSAS	x	x		x		x			
MW-42	12/21/2004	USAS	x	x		x		x	x		
MW-43	12/21/2004	LSAS	x	x		x		x	x		
MW-44	12/19/2004	S&P Sands	x	x		x		x			
MW-45	1/3/2005	S&P Sands	x	x		x		x			
MW-46	12/21/2004	Lower AF Sands	x			x					
MW-47	12/20/2004	USAS	x	x		x		x			
MW-48	12/20/2004	LSAS	x	x		x		x			
MW-49	1/3/2005	S&P Sands	x	x		x					
MW-50	1/11/2005	Lower AF Sands	x	x							
MW-51	1/11/2005	Lower AF Sands	x	x							
MW-52	1/7/2005	S&P Sands	x	x		x					

**Footnotes on Page 10.**

MW-53	1/7/2005	S&P Sands	x	x							
MW-54	12/30/2004	S&P Sands	x	x		x		x			Added following FDEP meeting 01/14/15
MW-55	1/8/2005	AF Gravels	x	x		x					
MW-56	1/10/2005	S&P Sands	x								Removed in 2014 RASR
MW-57	1/9/2005	S&P Sands	x	x		x		x			
MW-58	12/17/2004	S&P Sands	x	x		x					
MW-59	1/4/2005	S&P Sands	x	x		x					
MW-60	1/7/2005	S&P Sands	x								Removed from monitoring in 2014 RASR
MW-61	1/11/2005	S&P Sands	x								
MW-62	1/5/2005	USAS	x	x							
MW-63	1/3/2005	USAS	x	x		x		x			
MW-64	1/3/2005	USAS	x	x							
MW-65	1/3/2005	USAS	x	x		x		x			
MW-66	1/4/2005	USAS	x								
MW-67	1/4/2005	USAS	x	x		x					
MW-68	1/3/2005	LSAS	x	x		x		x			
MW-69	1/4/2005	USAS	x	x		x		x			
MW-70	12/29/2004	USAS	x	x		x					Removed from UIC monitoring in 2014 RASR
MW-71	12/29/2004	USAS	x	x		x		x			Removed from UIC monitoring in 2014 RASR
MW-72	12/19/2004	USAS	x	x		x		x	x		
MW-73	1/4/2005	USAS	x	x		x					
MW-74	1/4/2005	USAS	x	x		x					
MW-75	1/3/2005	USAS	x	x		x		x			
MW-76	1/4/2005	USAS	x	x		x			x		
MW-77	1/5/2005	LSAS	x	x		x					
MW-78	1/6/2005	LSAS	x	x		x					
MW-79	1/7/2005	LSAS	x	x		x		x			
MW-80	1/8/2005	LSAS	x	x		x		x	x		

**Table 11  
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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
MW-81	1/7/2005	LSAS	x	x		x		x			
MW-82	1/11/2005	LSAS	x	x		x		x			
MW-83	1/11/2005	AF Gravels	x	x							
MW-84	1/11/2005	LSAS	x	x		x					
MW-85	1/11/2005	LSAS	x	x		x		x			
MW-86R	11/9/2012	LSAS	x	x		x		x			replacement for MW-86
MW-87	1/11/2005	LSAS	x	x		x					
MW-88	1/10/2005	Clay/Sand Zone 1	x								
MW-89	1/11/2005	USAS	x	x		x					
MW-90	1/17/2005	USAS	x	x		x					
MW-91	1/17/2005	LSAS	x	x		x		x			
MW-92	1/17/2005	LSAS	x	x		x					
MW-93	1/18/2005	LSAS	x	x		x					
MW-94	1/19/2005	USAS	x	x		x		x			
MW-95	1/19/2005	USAS	x	x							
MW-96	2/3/2005	Clay/Sand Zone 3 & 4	x								
MW-97	2/5/2005	Clay/Sand Zone 3 & 4	x								
MW-98	2/4/2005	LSAS	x	x		x		x			
MW-99	2/6/2005	Clay/Sand Zone 1	x								
MW-100	2/6/2005	USAS	x	x		x		x			
MW-101	2/7/2005	LSAS	x	x		x					
MW-102	2/8/2005	AF Gravels	x	x		x		x			
MW-103	2/8/2005	USAS	x	x		x					
MW-104	2/9/2005	USAS	x	x		x		x			
MW-105	2/9/2005	LSAS	x	x		x					
MW-106	3/16/2005	LSAS	x	x							
MW-107	4/4/2005	USAS	x	x		x					
MW-108	3/15/2005	USAS	x	x		x		x			
MW-109	3/15/2005	USAS	x	x		x					
MW-110R	11/9/2012	USAS	x	x		x					replacement for MW-110
MW-111	3/15/2005	USAS	x	x							
MW-112	3/16/2005	Clay/Sand Zone 1	x								
MW-113	3/15/2005	LSAS	x	x		x					
MW-114	4/4/2005	USAS	x	x		x		x			
MW-115	5/23/2005	USAS	x	x		x					
<b>Footnotes on Page 10.</b>											
MW-116	5/23/2005	USAS	x	x		x					
MW-117	5/24/2005	LSAS	x	x							
MW-118	5/24/2005	USAS	x	x							
MW-119	5/24/2005	LSAS	x	x							
MW-120	5/24/2005	USAS	x	x							
MW-121	5/24/2005	USAS	x			x					Removed from annual monitoring in 2014
MW-122	5/24/2005	USAS	x								
MW-123	6/20/2005	Floridan	x	x							
MW-124	7/20/2005	AF Gravels	x	x		x					replacement for MW-169



**Table 11  
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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
MW-125	7/21/2005	Venice Clay	x								
MW-126	7/20/2005	USAS	x	x		x					
MW-127	8/30/2005	AF Gravels	x	x		x					
MW-128	9/1/2005	S&P Sands	x	x		x		x			
MW-129	9/7/2005	AF Gravels	x	x		x		x			
MW-130	9/8/2005	AF Gravels	x	x		x					
MW-131	9/9/2005	AF Gravels	x	x		x		x			
MW-132	9/10/2005	AF Gravels	x	x		x					
MW-133	9/13/2005	AF Gravels	x	x		x		x			
MW-134	9/14/2005	AF Gravels	x	x		x		x			
MW-135	9/15/2005	AF Gravels	x	x		x					
MW-136	10/27/2005	AF Gravels	x								Removed from monitoring in 2014 RASR
MW-137	12/28/2005	USAS	x								Removed from monitoring in 2014 RASR
MW-138	12/28/2005	LSAS	x								
MW-139	12/28/2005	S&P Sands	x								
MW-140	12/28/2005	Lower AF Sands	x								
MW-141	12/27/2005	USAS	x	x		x					
MW-142	12/27/2005	LSAS	x			x					Removed in 2014 RASR
MW-143	12/27/2005	AF Gravels	x	x		x					
MW-144	12/27/2005	S&P Sands	x			x					
MW-145	12/27/2005	Lower AF Sands	x			x					
MW-146	12/19/2005	USAS	x	x		x					
MW-147	12/19/2005	LSAS	x								
MW-148	12/19/2005	AF Gravels	x	x							
MW-149	12/19/2005	S&P Sands	x								
MW-150	12/19/2005	Lower AF Sands	x								Removed in 2014 RASR
MW-151	1/8/2006	USAS	x	x		x					
MW-152	1/8/2006	LSAS	x	x		x					
MW-153	1/12/2006	AF Gravels	x			x					Removed in 2014 RASR
MW-154	1/8/2006	S&P Sands	x								
MW-155	1/8/2006	Lower AF Sands	x	x		x					
MW-156	1/9/2006	USAS	x	x		x					
MW-157	1/9/2006	LSAS	x								
MW-158	1/9/2006	AF Gravels	x	x		x					
MW-159	1/9/2006	S&P Sands	x								
MW-160	1/9/2006	Lower AF Sands	x	x							
MW-161	1/20/2006	Floridan	x	x							
MW-162	1/19/2006	USAS	x	x		x					
MW-163	1/19/2006	LSAS	x								Removed in 2014 RASR
MW-164	1/18/2006	AF Gravels	x	x		x					
MW-165	2/15/2006	S&P Sands	x								
MW-166	1/24/2006	Lower AF Sands	x								
MW-167	1/31/2006	USAS	x			x					
MW-168	1/31/2006	LSAS	x	x		x					
MW-169	1/25/2006	Clay/Sand Zone 1	x	x						re-classified	replaced with MW-124

**Table 11  
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MW-170	2/1/2006	Lower AF Sands	x			x					
MW-171	1/19/2006	LSAS	x			x					
MW-172	1/19/2006	AF Gravels	x			x					
MW-173	1/18/2006	S&P Sands	x			x					
MW-174	1/23/2006	Lower AF Sands	x			x					
MW-175	1/17/2006	AF Gravels	x	x		x					
MW-176	1/17/2006	S&P Sands	x								
MW-177	1/16/2006	Lower AF Sands	x								
MW-178	1/22/2006	LSAS	x	x		x					
<b>Footnotes on Page 10.</b>											
MW-179	1/22/2006	AF Gravels	x			x					
MW-180	1/21/2006	S&P Sands	x			x					
MW-181	1/19/2006	Lower AF Sands	x			x					
MW-182	2/2/2006	S&P Sands	x	x		x					
MW-188	2/28/2006	USAS	x								
MW-189	2/17/2006	LSAS	x								
MW-190	2/28/2006	AF Gravels	x								
MW-191	2/28/2006	S&P Sands	x								
MW-192	2/21/2006	Lower AF Sands	x								
MW-193	2/17/2006	AF Gravels	x								
MW-194	2/21/2006	S&P Sands	x								
MW-195	2/20/2006	Lower AF Sands	x								
MW-196	3/7/2006	AF Gravels	x								
MW-197	3/8/2006	AF Gravels	x								
MW-198	3/6/2006	USAS	x								
MW-199	3/6/2006	LSAS	x								
MW-200	3/5/2006	AF Gravels	x	x							
MW-201	3/4/2006	S&P Sands	x								
MW-202	3/3/2006	Lower AF Sands	x								
MW-203	3/8/2006	Floridan	x*								Removed in 2014 RASR
MW-204	3/7/2006	USAS	x								
MW-205	3/7/2006	LSAS	x								
MW-206	3/7/2006	AF Gravels	x								
MW-207	3/16/2006	Lower AF Sands	x								
MW-208	4/3/2006	USAS	x								
MW-209	3/27/2006	LSAS	x								
MW-210	3/13/2006	AF Gravels	x								
MW-211	3/27/2006	S&P Sands	x								
MW-212	3/17/2006	Lower AF Sands	x								
MW-213	3/19/2006	USAS	x								
MW-214	3/19/2006	LSAS	x								
MW-215	3/18/2006	AF Gravels	x	x							
MW-216	3/18/2006	S&P Sands	x								
MW-217	3/16/2006	Lower AF Sands	x								
MW-219	3/14/2006	USAS	x	x		x					

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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
MW-220	3/14/2006	LSAS	x	x		x					
MW-221	3/14/2006	AF Gravels	x	x		x					
MW-222	3/15/2006	S&P Sands	x			x					
MW-223	3/19/2006	Hard Streak	x								
MW-224	3/19/2006	Venice Clay	x								
MW-225	3/18/2006	Venice Clay	x								
MW-226	3/17/2006	AF Gravels	x								
MW-227	3/18/2006	S&P Sands	x								
MW-228	3/17/2006	AF Gravels	x								
MW-229	3/19/2006	USAS	x			x					Removed in 2014 RASR
MW-230	3/18/2006	LSAS	x	x		x					
MW-231	3/18/2006	AF Gravels	x	x		x		x			
MW-232	3/20/2006	AF Gravels	x	x		x					
MW-233	3/20/2006	AF Gravels	x	x		x		x			
MW-234	3/21/2006	USAS	x								
MW-235	3/21/2006	LSAS	x								
MW-236	3/21/2006	AF Gravels	x								
MW-237	3/31/2006	S&P Sands	x								
MW-238	3/30/2006	Lower AF Sands	x								
MW-239	3/21/2006	AF Gravels	x	x		x		x			
MW-240	3/27/2006	S&P Sands	x								Removed in 2014 RASR
MW-241	4/3/2006	Lower AF Sands	x								
<b>Footnotes on Page 10.</b>											
MW-242	3/30/2006	USAS	x	x		x					
MW-243	3/29/2006	LSAS	x	x		x					
MW-244	3/29/2006	AF Gravels	x								
MW-245	4/3/2006	Hard Streak	x								
MW-246	4/3/2006	LSAS	x								
MW-247	4/2/2006	AF Gravels	x								
MW-248	4/4/2006	AF Gravels	x	x		x					
MW-249	1/31/2007	AF Gravels	x	x		x		x			
MW-250	2/1/2007	AF Gravels	x	x		x		x			
MW-251	4/14/2007	Floridan	x	x							
MW-252	11/20/2007	S&P Sands	x	x		x					
MW-253	11/21/2007	AF Gravels	x	x		x		x			
MW-254 (MW-BT-1)	12/17/2007	USAS	x	x		x		x			
MW-255	2/24/2010	AF Gravels	x	x							replaced well 2411 Tallevast Rd
RW-1	NA	USAS	x								
RW-2	NA	USAS	x								
TW-84-A	10/11/2007	USAS	x								
TW-84-B	10/11/2007	USAS	x								
EW-UAFG-1	6/2/2006	AF Gravels	x	x							
<b>Piezometer Wells</b>											
PZ-USAS-01	4/25/2015	USAS	x			x					
PZ-USAS-02	10/14/2014	USAS	x			x					

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Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
PZ-USAS-03	1/28/2015	USAS	x			x					
PZ-USAS-04	10/14/2014	USAS	x			x					
PZ-USAS-05	10/14/2014	USAS	x			x					
PZ-USAS-06	10/14/2014	USAS	x			x					
PZ-USAS-07	4/28/2015	USAS	x			x					
PZ-USAS-08	1/26/2015	USAS	x			x					
PZ-USAS-09	1/26/2015	USAS	x			x					
PZ-USAS-10	1/27/2015	USAS	x			x					
PZ-USAS-11	1/28/2015	USAS	x			x					
PZ-USAS-12	1/28/2015	USAS	x			x					
PZ-USAS-13	1/28/2015	USAS	x			x					
PZ-USAS-14	1/27/2015	USAS	x			x					
PZ-USAS-15	1/29/2015	USAS	x			x					
PZ-USAS-16	1/29/2015	USAS	x			x					
PZ-USAS-17	10/14/2014	USAS	x			x					
PZ-USAS-18	10/13/2014	USAS	x			x					
PZ-USAS-19	1/29/2015	USAS	x			x					
PZ-USAS-20	10/14/2014	USAS	x			x					
PZ-LSAS-1	11/26/2007	LSAS	x	x							
PZ-LSAS-2	11/26/2007	LSAS	x	x							
PZ-LSAS-4	11/26/2007	LSAS	x	x							
PZ-LSAS-5	11/26/2007	LSAS	x	x							
PZ-LSAS-6	11/26/2007	LSAS	x	x							
PZ-LSAS-7	11/26/2007	LSAS	x	x		x					
<b>Extraction Wells</b>											
EW-2001	1/13/2012	USAS					x				
EW-2002	1/10/2012	USAS					x				
EW-2003	1/10/2012	USAS					x				
EW-2004	1/11/2012	USAS					x				
EW-2005	1/11/2012	USAS					x				
EW-2006	1/12/2012	USAS					x				
EW-2007	1/9/2012	USAS					x				
EW-2008	12/1/2011	USAS					x				
EW-2009	12/1/2011	USAS					x				
EW-2010	12/2/2011	USAS					x				
EW-2011	1/4/2012	USAS					x				
EW-2012	12/5/2011	USAS					x				
EW-2013	12/6/2011	USAS					x				
EW-2014	1/17/2012	USAS					x				
EW-2015	12/19/2011	USAS					x				
EW-2016	12/19/2011	USAS					x				
EW-2017	3/13/2012	USAS					x				
EW-2018	1/19/2012	USAS					x				
EW-2019	1/4/2012	USAS					x				
EW-2020	1/18/2012	USAS					x				

**Table 11  
Monitoring Program Sampling Locations**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
EW-2021	3/9/2012	USAS					x				
EW-2022	5/21/2012	USAS					x				
EW-2023	5/21/2012	USAS					x				
EW-2024	5/31/2012	USAS					x				
EW-2025	5/25/2012	USAS					x				
EW-2026	5/17/2012	USAS					x				
EW-2027	5/30/2012	USAS					x				
EW-2028	5/17/2012	USAS					x				
EW-2029	5/16/2012	USAS					x				
EW-2030	5/16/2012	USAS					x				
EW-2031	5/18/2012	USAS					x				
EW-2032	5/15/2012	USAS					x				
EW-2033	1/6/2012	USAS					x				
EW-2034	12/22/2011	USAS					x				
EW-2035	1/18/2012	USAS					x				
EW-2036	12/12/2011	USAS					x				
EW-2037	11/30/2011	USAS					x				
EW-2101 (T-1)	8/4/2011	Extraction Trench					x				
EW-2102 (T-2)	8/1/2011	Extraction Trench					x				
EW-2103 (T-3)	8/17/2011	Extraction Trench					x				
EW-2104 (T-4)	8/19/2011	Extraction Trench					x				
<b>Footnotes on Page 10.</b>											
EW-3001	12/15/2011	LSAS					x				
EW-3002	12/13/2011	LSAS					x				
EW-3003	12/9/2011	LSAS					x				
EW-3004	12/21/2011	LSAS					x				
EW-3005	5/30/2012	LSAS					x				
EW-3006	5/18/2012	LSAS					x				
EW-3007	5/24/2012	LSAS					x				
EW-3008	5/23/2012	LSAS					x				
EW-3009	5/17/2012	LSAS					x				
EW-3010	5/14/2012	LSAS					x				
EW-3011	12/21/2011	LSAS					x				
EW-3012	8/17/2011	LSAS					x				
EW-3013	8/20/2011	LSAS					x				
EW-3014	8/20/2011	LSAS					x				
EW-3015	8/22/2011	LSAS					x				
EW-3016	8/23/2011	LSAS					x				
EW-3017	8/24/2011	LSAS					x				
EW-3018	8/19/2011	LSAS					x				
EW-3019	8/18/2011	LSAS					x				
EW-3020	1/13/2012	LSAS					x				
EW-3021	3/7/2012	LSAS					x				
EW-3022	3/6/2012	LSAS					x				
EW-3023	8/16/2011	LSAS					x				

**Table 11  
Monitoring Program Sampling Locations**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
EW-3024	3/12/2012	LSAS					x				
EW-3025	12/15/2011	LSAS					x				
EW-3026	3/8/2012	LSAS					x				
EW-3027	1/6/2012	LSAS					x				
EW-4001	12/9/2011	AF Gravel					x				
EW-4002	12/14/2011	AF Gravel					x				
EW-4003	5/16/2012	AF Gravel					x				
EW-4004	1/24/2012	AF Gravel					x				
EW-4005	1/27/2012	AF Gravel					x				
EW-4006	3/21/2012	AF Gravel					x				
EW-4007	3/9/2012	AF Gravel					x				
EW-4008	12/5/2011	AF Gravel					x				
EW-4009	12/22/2011	AF Gravel					x				
EW-4010	1/20/2012	AF Gravel					x				
EW-4011	1/6/2012	AF Gravel					x				
EW-5001	5/25/2012	S&P Sands					x				
EW-5002	1/13/2012	S&P Sands					x				
<b>Private Wells</b>											
PW-7 (7561/7571 15TH ST E)	Private Well	AF Gravels		x							
PW-57 (7500 26TH CT E)	Private Well	Floridan		x							
PW-84 (2400 TALLEVAST RD)	Private Well	AF Gravels		x							
PW-125 (2411 TALLEVAST RD)	2/26/2010	Floridan		x							replaced well MW-218
PW-132 (7851 15TH ST E #2)	9/16/2011	Floridan		x							replaced PW-47 (7851 15th St E)
PW-134 (7921 15TH ST E #2)	10/19/2011	Floridan		x							
<b>RAPA Treatment System Sampling Ports<sup>3/</sup></b>											
System Effluent- Treated					x						
Combined Plant Influent					x						
AOP Influent					x						
AOP Unit A Effluent					x						
AOP Unit B Effluent					x						
AOP Unit C Effluent					x						
Combined AOP Effluent					x						
Post-LPGAC-1					x						
Post-LPGAC-2					x						
RO System Feed					x						
RO System Concentrate					x						
RO System Permeate					x						
<b>Footnotes on Page 10.</b>											
<b>Staff Gauges/Stilling Wells</b>											
Staff Gauge-1R (Convention Ce	11/21/2011	Unassigned	x				x				
Staff Gauge-2 (ABC Facility on-3	NA	Unassigned	x				x				
Staff Gauge-3 (Commerce Cour	NA	Unassigned	x				x				
Staff Gauge-4 (Commerce Cent	NA	Unassigned	x				x				
Staff Gauge-6 (Desenberg Pond	NA	Unassigned									can not locate/may be destroyed
Staff Gauge-7 (Tallevast Rd Dit	NA	Unassigned	x				x				

**Table 11  
Monitoring Program Sampling Locations**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Well ID	Installation Date	Zone	Annual Water Levels	Annual Groundwater Monitoring a/	RAPA Treatment System Process Monitoring	Semi-Annual Water Levels	Semi-Annual Extraction Well Monitoring b/	Semi-Annual Groundwater Monitoring b/	Annual Persulfate Pilot Study Monitoring c/	Abandonment Date	Rationale for Change
Staff Gauge-8 (Boothe Pond)	11/13/2007	Unassigned	x			x					
Staff Gauge-9 (1975/2003 Tallevast)	11/17/2007	Unassigned	x			x					
Stilling Well-1R (ABC Facility on Site Pond)	8/11/2011	Unassigned	x			x					
Stilling Well-2 (Tallevast Rd Ditch)	11/7/2007	Unassigned	x			x					
Stilling Well-3 (Boothe Pond)	11/13/2007	Unassigned	x			x					
Stilling Well-4 (1975/2003 Tallevast)	11/17/2007	Unassigned	x			x					
<b>USAS Chemical Oxidation Pilot Test Observation Wells</b>											
CO-A1D	2/15/2008	USAS							x		
CO-B1D	2/15/2008	USAS									
CO-B4D	2/14/2008	USAS									
CO-C1D	2/12/2008	USAS							x		
CO-D1D	2/12/2008	USAS									
EXL-1 (EW-108) <sup>1/</sup>	8/31/2005	LSAS							x		
<b>Total Number of Sample Locations</b>			<b>297</b>	<b>164</b>	<b>12</b>	<b>180</b>	<b>81</b>	<b>54</b>	<b>11</b>		

**Footnotes:**

- RAPA - Remedial Action Plan Addendum
- OMM- Operation, Maintenance and Monitoring
- AF Gravels- Arcadian Formation Gravels
- LSAS- Lower Shallow Aquifer System
- Lower AF Sands- Lower Arcadian Formation Sands
- S&P Sands- Salt & Pepper Sands
- SIM ID- Selective Ion Monitoring by Isotope Dilution
- USAS- Upper Surficial Aquifer System
- VOC- Volatile Organic Compound

<sup>1/</sup> Former extraction well now only used for persulfate pilot study monitoring

<sup>2/</sup> Stilling Well-1(ABC Facility on-Site Pond) and Staff Gauge-1(Convention Center) were replaced in 2011

<sup>3/</sup> System Effluent is analyzed for site specific COCs and EPA Method 6010B Metals. The Combined Plant Influent is analyzed for the full list of 8260B and 1,4-dioxane. The RO System Permeate is analyzed for the site specific COCs and EPA Method 6020A Metals. All other treatment sampling points are analyzed for site specific COCs only.

a/ - Analyzed for VOCs (Full List) by EPA 8260B and for 1,4-Dioxane by EPA 8260C SIM ID.

b/ - All monitoring and extraction wells samples are analyzed for VOCs (Full List) by EPA 8260B and for 1,4-Dioxane by EPA 8260C SIM ID.

Treatment system samples are analyzed for or more of Site Specific COCs, 1,4-dioxane, the full list of 8260B + 1,4-dioxane, 6020A Metals, or 6010B Metals depending on sampling location.

c/ - Persulfate Pilot Study Monitoring List

x\* = Water levels will not be taken.

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																			
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	2-Butanone	Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride		
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
EW 2001_INF	USAS	11/19/2013 11:46	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/25/2013 09:42	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/4/2013 8:09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 10:29	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 10:45	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 14:25	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		05/07/2014 09:24	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		08/07/2014 08:30	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		11/05/2014 10:22	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		02/04/2015 09:15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	
5/13/2015 15:54	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
8/6/2015 8:32	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
EW 2002_INF	USAS	11/19/2013 11:54	NA	NA	NA	NA	4.3	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 09:49	NA	NA	NA	NA	4.0	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/4/2013 08:13	NA	NA	NA	NA	4.5	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 10:34	NA	NA	NA	NA	4.4	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 10:52	NA	NA	NA	NA	3.9	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 14:31	0.63 U	0.46 U	0.15 U	0.47 U	3.1	2.6	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		05/07/2014 09:30	0.63 U	0.46 U	0.15 U	0.47 U	2.9	2.7	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		08/07/2014 08:35	0.63 U	0.46 U	0.15 U	0.47 U	2.7	2.2	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		11/05/2014 10:29	0.63 U	0.46 U	0.15 U	0.47 U	1.8	1.9	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		02/04/2015 09:06	0.63 U	0.47 U	0.17 U	0.47 U	1.5	1.7	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	
5/13/2015 15:58	0.63 U	0.47 U	0.17 U	0.47 U	1.7	1.7	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
8/6/2015 8:42	0.63 U	0.47 U	0.17 U	0.47 U	1.4	1.1	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
EW 2003_INF	USAS	11/19/2013 12:00	NA	NA	NA	NA	9	8.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 09:59	NA	NA	NA	NA	14	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/4/2013 08:17	NA	NA	NA	NA	10	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 10:43	NA	NA	NA	NA	8.3	8.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 10:57	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 14:43	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.96 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		05/07/2014 09:40	0.63 U	0.46 U	0.15 U	0.47 U	6.9	7.6	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		08/07/2014 08:44	0.63 U	0.46 U	0.15 U	0.47 U	6.5	6.8	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		11/05/2014 10:39	0.63 U	0.46 U	0.15 U	0.47 U	5.3	6.7	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.43 U	
		02/04/2015 08:59	0.63 U	0.47 U	0.17 U	0.47 U	3.0	4.5	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	
5/13/2015 16:20	0.63 U	0.47 U	0.17 U	0.47 U	3.3	3.3	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
8/6/2015 8:48	0.63 U	0.47 U	0.17 U	0.47 U	2.3	2.9	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U			
EW 2004_INF	USAS	11/19/2013 12:14	NA	NA	NA	NA	11	12	NA																												





TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																						
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	2-Butanone	Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride					
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 2007_INF	USAS	11/19/2013 12:42	NA	NA	NA	NA	0.97 I	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/25/2013 10:33	NA	NA	NA	NA	0.89 I	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		12/04/2013 08:42	NA	NA	NA	NA	0.94 I	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/10/2013 10:59	NA	NA	NA	NA	0.52 U	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		01/06/2014 11:29	NA	NA	NA	NA	0.63 I	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		02/04/2014 15:48	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	1.6	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U	0.42 U	0.42 U			
		05/07/2014 10:02	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.95 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		08/07/2014 09:05	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.59 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		11/05/2014 11:01	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		02/04/2015 08:42	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		5/13/2015 17:00	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		8/6/2015 9:16	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
EW 2008_INF	USAS	11/19/2013 13:52	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/25/2013 10:47	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 09:25	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/10/2013 11:12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/06/2014 12:44	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 15:19	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U	0.42 U	0.42 U			
		05/07/2014 10:22	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		08/07/2014 09:28	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		11/05/2014 11:30	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		02/04/2015 10:04	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		5/13/2015 7:46	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		8/6/2015 11:12	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
EW 2009_INF	USAS	11/19/2013 14:02	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/25/2013 10:54	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 09:16	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 11:06	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 12:37	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 15:13	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U	0.42 U	0.42 U			
		05/07/2014 10:14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		08/07/2014 09:22	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		11/05/2014 11:25	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U			
		02/04/2015 09:35	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		5/13/2015 7:38	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U			
		8/6/2015 11:16	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U																																

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)																												Volatile Organics (8260) - SIM D	1,4-Dioxane	Total VOCs					
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene				trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	
		GTCL	91	0.4	12	70	2.7	70	70	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	14	100	100	3	40	100	3	40	100	3				2100	1	GTCL	3.2	1
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 2007_INF	USAS	11/19/2013 12:42	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.78 I	NA	NA	NA	9	NA	0.50 U	2.6	16.55		
		11/25/2013 10:33	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.85 I	NA	NA	NA	7.7	NA	0.50 U	2.1	13.84		
		12/04/2013 08:42	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.90 I	NA	NA	NA	8	NA	0.50 U	1.81	14.04		
		12/10/2013 10:59	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.91 I	NA	NA	NA	8.1	NA	0.50 U	1.91	13.01		
		01/06/2014 11:29	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 I	NA	NA	NA	5.2	NA	0.50 U	1.41	9.67		
		02/04/2014 15:48	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.0	0.51 U	0.44 U	0.14 U	4.8	2.5 U	0.50 U	1.61	9	
		05/07/2014 10:02	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	3.6	2.5 U	0.50 U	1.0 U	4.55	
		08/07/2014 09:05	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.79 I	0.51 U	0.44 U	0.14 U	2.2	2.5 U	0.50 U	1.0 U	3.58	
		11/05/2014 11:01	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.68 I	0.51 U	0.44 U	0.14 U	1.1	2.5 U	0.50 U	1.0 U	1.78	
		02/04/2015 08:42	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.61 I	0.51 U	0.67 U	0.27 U	0.83 I	2.5 U	0.71 U	1.0 U	1.44	
		5/13/2015 17:00	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U	0	
		8/6/2015 9:16	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U	0	
		EW 2008_INF	USAS	11/19/2013 13:52	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	4.0	4.0
				11/25/2013 10:47	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	3.3	3.3
				12/04/2013 09:25	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	3.8	3.8
12/10/2013 11:12	NA			NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	2.5	2.5		
01/06/2014 12:44	NA			NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	2.9	2.9		
02/04/2014 15:19	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	3.3	3.3	
05/07/2014 10:22	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.51 I	2.5 U	0.50 U	2.8	3.31	
08/07/2014 09:28	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	4.2	4.2	
11/05/2014 11:30	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.1	2.1	
02/04/2015 10:04	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	2.8	2.8	
5/13/2015 7:46	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	2.7	2.7	
8/6/2015 11:12	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	2.4	2.4	
EW 2009_INF	USAS			11/19/2013 14:02	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	4.4	4.4
				11/25/2013 10:54	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	3.7	3.7
				12/04/2013 09:16	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	2.9	2.9
		12/10/2013 11:06	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	3.3	3.3		
		01/06/2014 12:37	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	2.7	2.7		
		02/04/2014 15:13	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	3.2	3.2	
		05/07/2014 10:14	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.81	1.8	
		08/07/2014 09:22	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	3.3	3.3	
		11/05/2014 11:25	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.41	1.4	
		02/04/2015 09:35	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.91	1.9	
		5/13/2015 7:38	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.61	1.6	
		8/6/2015 11:16	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U																													

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (g/sol)																																			
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	Butanone	Chlorotoluene	Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride			
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
EW 2013_INF	USAS	11/19/2013 15:20	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 11:26	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 09:42	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 11:37	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 13:19	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 15:59	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U		
		05/07/2014 11:40	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		08/07/2014 10:27	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.591	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		11/05/2014 15:13	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.551	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		02/04/2015 10:26	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.671	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 UJ3	1.0 U	0.43 U		
		5/13/2015 8:20	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
		8/7/2015 11:28	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.621	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
EW 2014_INF	USAS	11/19/2013 16:44	NA	NA	NA	NA	2	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 14:27	NA	NA	NA	NA	2	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/04/2013 10:40	NA	NA	NA	NA	2	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 14:23	NA	NA	NA	NA	2	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 14:23	NA	NA	NA	NA	1.7	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 16:50	0.63 U	0.46 U	0.15 U	0.47 U	1.2	2.3	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U		
		05/07/2014 14:52	0.63 U	0.46 U	0.15 U	0.47 U	1.231	1.5	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		08/07/2014 14:45	0.63 U	0.46 U	0.15 U	0.47 U	1.1	1.9	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		11/06/2014 08:53	0.63 U	0.46 U	0.15 U	0.47 U	0.691	1.3	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		02/04/2015 14:14	0.63 U	0.47 U	0.17 U	0.47 U	0.791	1.8	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 UJ3	1.0 U	0.43 U		
		5/13/2015 10:46	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	1.3	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
		8/7/2015 14:22	0.63 U	0.47 U	0.17 U	0.47 U	0.521	1.1	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
EW 2015_INF	USAS	11/20/2013 11:50	NA	NA	NA	NA	15	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/26/2013 10:58	NA	NA	NA	NA	16	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/05/2013 11:20	NA	NA	NA	NA	17	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 08:46	NA	NA	NA	NA	17	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 11:30	NA	NA	NA	NA	13	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:10	0.63 U	0.46 U	0.15 U	0.47 U	12	3.7	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 UJ	1.0 U	0.42 U		
		05/08/2014 09:32	0.63 U	0.46 U	0.15 U	0.47 U	5.1	1.8	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		08/08/2014 08:42	0.63 U	0.46 U	0.15 U	0.47 U	5.7	1.8	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		11/06/2014 07:50	0.63 U	0.46 U	0.15 U	0.47 U	3.3	1.5	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		02/05/2015 10:40	0.63 U	0.47 U	0.17 U	0.47 U	3.4	1.5	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.1 I	0.43 U		
		5/13/2015 11:06	0.63 U	0.47 U	0.17 U	0.47 U	2.5	1.4	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
		8/7/2015 7:25	0.63 U	0.47 U	0.17 U	0.47 U	1.4	0.751	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
EW 2016_INF	USAS	11/20/2013 14:32	NA	NA	NA	NA	3.7	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 18:32	NA	NA	NA	NA	4.1	5	NA																												

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)																												Volatile Organics (8260) - SIM D	1,4-Dioxane	Total VOCs						
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene				trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride		
		GTCL	91	0.4	12	70	2.7	70	7	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	1	1	1	1	100	1	3	40	100	3				40	100	3	2100	1	GTCL
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
Date / Time Collected:																													Units	ug/L	ug/L							
EW 2013_INF	USAS	11/19/2013 15:20	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		11/25/2013 11:26	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		12/04/2013 09:42	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		12/10/2013 11:37	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		01/06/2014 13:19	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		02/04/2014 15:59	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
		05/07/2014 11:40	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
		08/07/2014 10:27	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	1.79		
		11/05/2014 15:13	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0.55		
		02/04/2015 10:26	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U	0.7		
		5/13/2015 8:20	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U	0		
		8/6/2015 11:28	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U	0.62		
		EW 2014_INF	USAS	11/19/2013 16:44	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	NA	NA	360	NA	0.50 U	NA	0.50 U	42	423.9
				11/25/2013 14:27	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8	NA	NA	NA	330	NA	0.50 U	NA	0.50 U	40	388.9
12/04/2013 10:40	NA			NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	NA	NA	NA	290	NA	0.50 U	NA	0.50 U	40	355.5		
12/10/2013 14:23	NA			NA	NA	NA	NA	9.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8	NA	NA	NA	370	NA	0.50 U	NA	0.50 U	39	429.1		
01/06/2014 14:23	NA			NA	NA	NA	NA	9.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	NA	NA	NA	370	NA	0.50 U	NA	0.50 U	36	422.4		
02/04/2014 16:50	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	6.5	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.6	0.14 U	170	2.5 U	0.50 U	40	312.53		
05/07/2014 14:52	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	6.7	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.3	0.14 U	170	2.5 U	0.50 U	28	209.1		
08/07/2014 14:45	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	5.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.6	0.14 U	130	2.5 U	0.50 U	22	162.81		
11/06/2014 08:53	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	4.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.2	0.14 U	110	2.5 U	0.50 U	15	133.16		
02/04/2015 14:14	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	4.8	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.6	0.27 U	120	2.5 U	0.71 U	15	144.53		
5/13/2015 10:46	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	4.7	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.1	0.27 U	97	2.5 U	0.71 U	12	116.1		
8/6/2015 14:22	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	3.4	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	1.1	0.27 U	95	2.5 U	0.71 U	11	112.12		
EW 2015_INF	USAS			11/20/2013 11:50	NA	NA	NA	NA	NA	0.91 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	17	NA	0.50 U	NA	0.50 U	1.0 U	40.21
				11/26/2013 10:58	NA	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA	NA	21	NA	0.50 U	NA	0.50 U	1.2 I	47
		12/05/2013 11:20	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	NA	NA	21	NA	0.50 U	NA	0.50 U	1.0 U	47.2		
		12/11/2013 08:46	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	19	NA	0.50 U	NA	0.50 U	1.0 U	42.8		
		01/07/2014 11:30	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	NA	NA	NA	15	NA	0.50 U	NA	0.50 U	1.0 U	34.1		
		02/05/2014 09:10	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.90 I	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.1	0.51 U	0.44 U	0.14 U	15	2.5 U	0.50 U	1.0 I	34.7		
		05/08/2014 09:32	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.2	0.51 U	0.44 U	0.14 U	12	2.5 U	0.50 U	1.0 U	20.1		
		08/08/2014 08:42	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.3	0.51 U	0.44 U	0.14 U	9.1	2.5 U	0.50 U	1.0 U	21.2		
		11/06/2014 07:50	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.96 I	0.51 U	0.44 U	0.14 U	8.5	2.5 U	0.50 U	1.0 U	16.96		
		02/05/2015 10:40	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.94 I	0.51 U	0.67 U	0.27 U	9.6	2.5 U	0.71 U	1.0 U	16.54		
		5/13/2015 11:06	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.94 I	0.51 U	0.67 U	0.27 U	6.9	2.5 U	0.71 U	1.0 U	10.8		
		8/7/																																				

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																				
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	Butanone	Chlorotoluene	Hexanone	Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon Disulfide	Carbon tetrachloride				
		GTCL	1.3	200	0.2	5	70	7	NA	NA	70	0.02	70	10	0.2	600	3	5	10	210	NA	75	NA	4200	140	280	140	NA	560	6300	1	NA	4.4	9.8	700	3		
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
Date / Time Collected:																																						
EW 2019_INF	USAS	11/20/2013 14:48	NA	NA	NA	NA	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:15	NA	NA	NA	NA	1.8	0.86 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 16:12	NA	NA	NA	NA	1.9	0.80 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 12:55	NA	NA	NA	NA	1.8	0.70 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 15:13	NA	NA	NA	NA	1.6	0.62 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:58	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.71 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		05/06/2014 16:28	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.65 I	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	
		08/08/2014 10:32	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.81 I	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	
		11/06/2014 10:43	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		02/05/2015 09:24	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		5/14/2015 8:44	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		8/7/2015 10:00	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
EW 2020_INF	USAS	11/20/2013 14:42	NA	NA	NA	NA	4	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:05	NA	NA	NA	NA	3.6	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 15:52	NA	NA	NA	NA	4.3	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 12:34	NA	NA	NA	NA	3.8	1.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 15:05	NA	NA	NA	NA	2.8	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:42	0.63 U	0.46 U	0.15 U	0.47 U	2.9	1.1	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		05/06/2014 16:20	0.63 U	0.46 U	0.15 U	0.47 U	1.8	0.54 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		08/08/2014 10:11	0.63 U	0.46 U	0.15 U	0.47 U	1.2	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		11/06/2014 10:33	0.63 U	0.46 U	0.15 U	0.47 U	0.73 I	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		02/05/2015 09:18	0.63 U	0.47 U	0.17 U	0.47 U	0.68 I	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		5/13/2015 18:44	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		8/7/2015 9:52	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
EW 2021_INF	USAS	11/20/2013 15:10	NA	NA	NA	NA	5.2	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		12/11/2013 13:46	NA	NA	NA	NA	5.1	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 15:32	NA	NA	NA	NA	6.4	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 10:28	0.63 U	0.46 U	0.15 U	0.47 U	7.9	2.7	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		05/06/2014 16:56	0.63 U	0.46 U	0.15 U	0.47 U	10	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		08/08/2014 10:47	0.63 U	0.46 U	0.15 U	0.47 U	9.3	6.1	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		11/06/2014 11:07	0.63 U	0.46 U	0.15 U	0.47 U	5.9	1.9	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		02/05/2015 09:40	0.63 U	0.47 U	0.17 U	0.47 U	3.5	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		5/14/2015 8:40	0.63 U	0.47 U	0.17 U	0.47 U	6.8	3.1	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		8/7/2015 10:24	0.63 U	0.47 U	0.17 U	0.47 U	2.5	1.2	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		EW 2022_INF	USAS	11/20/2013 14:50	NA	NA	NA	NA	10	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/26/2013 13:16	NA	NA	NA	NA	11	3	NA	NA</																										



TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																				
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	Butanone	Chlorotoluene	Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon Disulfide	Carbon tetrachloride				
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
EW 2025_INF	USAS	11/20/2013 15:02	NA	NA	NA	NA	4.2	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/26/2013 13:34	NA	NA	NA	NA	4.4	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/04/2013 16:45	NA	NA	NA	NA	4.3	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 13:25	NA	NA	NA	NA	4.8	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 15:24	NA	NA	NA	NA	4.2	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 10:16	0.63 U	0.46 U	0.15 U	0.47 U	5.4	2.5	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		05/06/2014 16:44	0.63 U	0.46 U	0.15 U	0.47 U	4.3	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		08/08/2014 10:34	0.63 U	0.46 U	0.15 U	0.47 U	3.8	3.0	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		11/06/2014 10:59	0.63 U	0.46 U	0.15 U	0.47 U	3.2	1.1	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		02/05/2015 09:34	0.63 U	0.47 U	0.17 U	0.47 U	2.6	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		5/13/2015 19:08	0.63 U	0.47 U	0.17 U	0.47 U	1.9	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		8/7/2015 10:12	0.63 U	0.47 U	0.17 U	0.47 U	1.3	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		EW 2026_INF	USAS	11/19/2013 18:02	NA	NA	NA	NA	3.4	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/25/2013 17:43	NA			NA	NA	NA	3.9	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/04/2013 14:28	NA			NA	NA	NA	3.6	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/11/2013 10:58	NA			NA	NA	NA	4.2	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
01/07/2014 13:42	NA			NA	NA	NA	3.3	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/05/2014 09:19	0.63 U			0.46 U	0.15 U	0.47 U	3.7	2.9	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
05/06/2014 15:23	0.63 U			0.46 U	0.15 U	0.47 U	2.7	2	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
08/08/2014 09:18	0.63 U			0.46 U	0.15 U	0.47 U	1.0	0.52 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
11/06/2014 09:45	0.63 U			0.46 U	0.15 U	0.47 U	0.75 U	0.70 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
02/05/2015 08:40	0.63 U			0.47 U	0.17 U	0.47 U	0.86 U	0.69 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
5/13/2015 17:52	0.63 U			0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
8/7/2015 8:48	0.63 U			0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
EW 2027_INF	USAS			11/19/2013 17:50	NA	NA	NA	NA	19	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/25/2013 17:32	NA	NA	NA	NA	19	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/04/2013 14:10	NA	NA	NA	NA	17	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 10:35	NA	NA	NA	NA	17	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 13:22	NA	NA	NA	NA	9.5	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:12	0.63 U	0.46 U	0.15 U	0.47 U	10	24	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		05/06/2014 15:16	0.63 U	0.46 U	0.15 U	0.47 U	4.8	12	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		08/08/2014 09:08	0.63 U	0.46 U	0.15 U	0.47 U	1.6	11	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		11/06/2014 09:32	0.63 U	0.46 U	0.15 U	0.47 U	1.1	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U		
		02/05/2015 08:33	0.63 U	0.47 U	0.17 U	0.47 U	0.92 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		5/13/2015 17:44	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		8/7/2015 8:38	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U		
		EW 2028_INF	USAS	11/19/2013 17:5																																		





TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																					
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	Butanone	Chlorotoluene	Hexanone	Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride				
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 2030_INF	USAS	11/19/2013 17:36	NA	NA	NA	NA	0.52 U	0.59 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/25/2013 17:28	NA	NA	NA	NA	0.52 U	0.67 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		12/04/2013 14:03	NA	NA	NA	NA	0.53 I	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 10:27	NA	NA	NA	NA	0.57 I	0.62 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 13:15	NA	NA	NA	NA	0.52 U	0.79 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		02/05/2014 09:08	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.66 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		05/06/2014 15:13	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		08/08/2014 09:04	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		11/06/2014 09:28	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		02/05/2015 08:30	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		5/13/2015 17:42	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		8/7/2015 8:34	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
EW 2031_INF	USAS	11/19/2013 17:42	NA	NA	NA	NA	2.7	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/25/2013 17:25	NA	NA	NA	NA	3.4	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 14:00	NA	NA	NA	NA	3.3	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 10:20	NA	NA	NA	NA	2.8	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 13:10	NA	NA	NA	NA	2.3	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:05	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.47	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		05/06/2014 15:10	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	1.1	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	1.2	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		08/08/2014 09:00	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.88 I	1.6	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		11/06/2014 09:24	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	1.2	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		02/05/2015 08:26	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		5/13/2015 17:38	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		8/7/2015 8:30	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
EW 2032_INF	USAS	11/19/2013 18:22	NA	NA	NA	NA	4.3	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 18:14	NA	NA	NA	NA	4.9	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/04/2013 15:02	NA	NA	NA	NA	5.8	9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 11:30	NA	NA	NA	NA	5	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 14:15	NA	NA	NA	NA	3.7	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 09:30	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	4.5	5.8	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		05/06/2014 15:42	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	2.9	5.1	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		08/08/2014 09:37	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	2.3	2.4	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		11/06/2014 10:07	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	1.7	2.4	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U	
		02/05/2015 08:50	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	1.8	1.9	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U	
		5/13/2015 18:12	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	1.3	1.9	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U	
		8/7/2015 9:00	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	1.2	1.2	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2																								

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)																												Volatile Organics (8260) - SIM D	1,4-Dioxane	Total VOCs						
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethane	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka: Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene				trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride		
		GTCL	100	91	0.4	12	70	2.7	70	70	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	14	100	100	3	40	100	3	40	100				3	2100	1	GTCL	3.2	1
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 2030_INF	USAS	11/19/2013 17:36	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	NA	NA	NA	43	NA	0.50 U	1.3 I	75.89		
		11/25/2013 17:28	NA	NA	NA	NA	NA	NA	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	NA	NA	NA	46	NA	0.50 U	1.0 I	70.77		
		12/04/2013 14:03	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	44	NA	0.50 U	1.3 I	67.83		
		12/11/2013 10:27	NA	NA	NA	NA	NA	NA	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	40	NA	0.50 U	1.1 I	63.09		
		01/07/2014 13:15	NA	NA	NA	NA	NA	NA	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	35	NA	0.50 U	1.1 I	53.29		
		02/05/2014 09:08	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	3.5	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	14	0.51 U	0.44 U	0.14 U	38	2.5 U	0.50 U	1.0 I	57.16		
		05/06/2014 15:13	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	3	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	9.8	0.51 U	0.44 U	0.14 U	27	2.5 U	0.50 U	1.0 U	39.8		
		08/08/2014 09:04	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	2.3	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	6.6	0.51 U	0.44 U	0.14 U	19	2.5 U	0.50 U	1.0 U	27.9		
		11/06/2014 09:28	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	3.3	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	6.0	0.51 U	0.44 U	0.14 U	14	2.5 U	0.50 U	1.0 U	23.3		
		02/05/2015 08:30	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	3.3	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	3.4	0.51 U	0.67 U	0.27 U	5.9	2.5 U	0.71 U	1.0 U	11.6		
		5/13/2015 17:42	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	1.3	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.1	0.51 U	0.67 U	0.27 U	2.8	2.5 U	0.71 U	1.0 U	6.2		
		8/7/2015 8:34	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.6	0.51 U	0.67 U	0.27 U	1.4	2.5 U	0.71 U	1.0 U	3		
		EW 2031_INF	USAS	11/19/2013 17:42	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.5	NA	NA	NA	3.8	NA	0.50 U	1.0 U	19.2
				11/25/2013 17:25	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA	NA	3.9	NA	0.50 U	1.0 U	18.9
				12/04/2013 14:00	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2	NA	NA	NA	4.8	NA	0.50 U	1.0 U	19.8
12/11/2013 10:20	NA			NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA	NA	3.3	NA	0.50 U	1.0 U	16.5		
01/07/2014 13:10	NA			NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	3.7	NA	0.50 U	1.0 U	14.7		
02/05/2014 09:05	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	3.6	0.51 U	0.44 U	0.14 U	3.1	2.5 U	0.50 U	1.0 U	73.5		
05/06/2014 15:10	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	1.4	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.9	0.51 U	0.44 U	0.14 U	3.3	2.5 U	0.50 U	1.0 U	29.2		
08/08/2014 09:00	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.8	0.51 U	0.44 U	0.14 U	2.2	2.5 U	0.50 U	1.0 U	16.68		
11/06/2014 09:24	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.89 I	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.2	0.51 U	0.44 U	0.14 U	1.6	2.5 U	0.50 U	1.0 U	9.49		
02/05/2015 08:26	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.85 I	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.7	0.51 U	0.67 U	0.27 U	2.1	2.5 U	0.71 U	1.0 U	7.41		
5/13/2015 17:38	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.69 I	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.8	0.51 U	0.67 U	0.27 U	2.5	2.5 U	0.71 U	1.0 U	6.19		
8/7/2015 8:30	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.2	0.51 U	0.67 U	0.27 U	1.9	2.5 U	0.71 U	1.0 U	3.61		
EW 2032_INF	USAS			11/19/2013 18:22	NA	NA	NA	NA	NA	NA	8.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	290	NA	0.50 U	17	465.6
				11/25/2013 18:14	NA	NA	NA	NA	NA	NA	9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	350	NA	0.50 U	17	508.3
				12/04/2013 15:02	NA	NA	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	360	NA	0.50 U	17	526.5
		12/11/2013 11:30	NA	NA	NA	NA	NA	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	370	NA	0.50 U	18	547.4		
		01/07/2014 14:15	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	79	NA	NA	NA	310	NA	0.50 U	14	419.8		
		02/05/2014 09:30	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	9.5	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	99	0.51 U	0.69 I	0.14 U	370	2.5 U	0.50 U	1.0 U	505.49		
		05/06/2014 15:42	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	7.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	97	0.51 U	0.63 I	0.14 U	220	2.5 U	0.50 U	1.0 U	343.73		
		08/08/2014 09:37	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	4.9	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	96	0.51 U	0.44 U	0.14 U	140	2.5 U	0.50 U	1.0 U	242.7		
		11/06/2014 10:07	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	6.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	97	0.51 U	0.68 I	0.14 U	110	2.5 U	0.50 U	1.0 U	211.38		
		02/05/2015 08:50	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	5.7	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U															









TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																					
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	2-Butanone	Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride				
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 3005_INF	LSAS	11/20/2013 15:08	NA	NA	NA	NA	50	330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:40	NA	NA	NA	NA	49	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		12/04/2013 16:58	NA	NA	NA	NA	51	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 13:39	NA	NA	NA	NA	56	380	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 15:30	NA	NA	NA	NA	54	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		02/05/2014 10:24	6.3 U	4.6 U	1.5 U	4.7 U	28	170	3.1 U	7.7 U	1.8 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	3.9 U	5.2 U	3.6 U	84 U	6.5 U	44 U	5.2 U	6.9 U	38 U	99 U	5.0 U	5.8 U	5.8 U	25 U	10 U	4.2 U				
		05/06/2014 16:52	3.2 U	2.3 U	0.75 U	2.4 U	19	130	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	19 U	50 U	2.5 U	2.9 U	19 U	50 U	2.5 U	2.9 U			
		08/08/2014 10:43	1.3 U	0.92 U	0.30 U	0.94 U	11	59	0.62 U	1.5 U	0.36 U	1.2 U	1.7 U	5.0 U	0.88 U	1.1 U	1.0 U	1.1 U	1.3 U	0.78 U	1.0 U	0.72 U	17 U	1.3 U	8.8 U	1.0 U	1.4 U	7.6 U	20 U	1.0 U	1.2 U	1.2 U	5.0 U	2.0 U	0.84 U				
		11/06/2014 11:05	0.63 U	0.46 U	0.15 U	0.47 U	11	79	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		02/05/2015 09:38	0.63 U	0.47 U	0.17 U	0.47 U	12	72	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		5/13/2015 19:16	0.63 U	0.47 U	0.17 U	0.47 U	11	58	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		8/7/2015 10:20	0.63 U	0.47 U	0.17 U	0.47 U	8.8	48	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
EW 3006_INF	LSAS	11/20/2013 15:00	NA	NA	NA	NA	22	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:30	NA	NA	NA	NA	21	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 16:38	NA	NA	NA	NA	22	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 13:19	NA	NA	NA	NA	18	95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 15:21	NA	NA	NA	NA	18	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		02/05/2014 09:48	1.3 U	0.92 U	0.30 U	0.94 U	14	79	0.62 U	1.5 U	0.36 U	1.2 U	1.7 U	5.0 U	0.88 U	1.1 U	1.0 U	1.1 U	1.3 U	0.78 U	1.0 U	0.72 U	17 U	1.3 U	8.8 U	1.0 U	1.4 U	7.6 U	20 U	1.0 U	1.2 U	1.2 U	5.0 U	2.0 U	0.84 U				
		05/06/2014 16:40	0.63 U	0.46 U	0.15 U	0.47 U	9.7	52	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		08/08/2014 10:52	0.63 U	0.46 U	0.15 U	0.47 U	6.5	44	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		11/06/2014 10:56	0.63 U	0.46 U	0.15 U	0.47 U	5.5	15	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		02/05/2015 09:32	0.63 U	0.47 U	0.17 U	0.47 U	9.8	42	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		5/14/2015 8:50	0.63 U	0.47 U	0.17 U	0.47 U	8.2	35	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		8/7/2015 10:40	0.63 U	0.47 U	0.17 U	0.47 U	7.0	12	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
EW 3007_INF	LSAS	11/20/2013 15:04	NA	NA	NA	NA	30	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:37	NA	NA	NA	NA	30	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 16:52	NA	NA	NA	NA	25	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 13:32	NA	NA	NA	NA	24	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 15:27	NA	NA	NA	NA	16	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 10:20	0.63 U	0.46 U	0.15 U	0.47 U	12	83	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		05/06/2014 16:48	0.63 U	0.46 U	0.15 U	0.47 U	10	66	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		08/08/2014 10:39	0.63 U	0.46 U	0.15 U	0.47 U	6.2	47	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		11/06/2014 11:02	0.63 U	0.46 U	0.15 U	0.47 U	7.3	36	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U				
		02/05/2015 09:36	0.63 U	0.47 U	0.17 U	0.47 U	11	37	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		5/13/2015 19:12	0.63 U	0.47 U	0.17 U	0.47 U	8.4	23	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
		8/7/2015 10:16	0.63 U	0.47 U	0.17 U	0.47 U	7.9	29	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
EW 3008_INF	LSAS	11/20/2013 14:46	NA	NA	NA	NA	15	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 13:12	NA	NA	NA	NA	16	48	NA																														



TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)	Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka: Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Volatile Organics (8260) - SIM D	GTCL	1,4-Dioxane	Total VOCs																													
																																							100	91	0.4	12	70	2.7	70	70	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	1	100	3	40	100	3	2100	1	GTCL	3.2	1
																																							Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
EW 3005_INF	LSAS	11/20/2013 15:08	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2400	NA	5.0 U	57	2953.5																											
		11/26/2013 13:40	NA	NA	NA	NA	NA	NA	NA	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3100	NA	2.5 U	83	3631.4																												
		12/04/2013 16:58	NA	NA	NA	NA	NA	NA	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2800	NA	2.5 U	82	3367.9																												
		12/11/2013 13:39	NA	NA	NA	NA	NA	NA	NA	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2700	NA	2.7 U	71	3279.6																												
		01/07/2014 15:30	NA	NA	NA	NA	NA	NA	NA	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2300	NA	5.0 U	66	2918																												
		02/05/2014 10:24	6.3 U	5.8 U	3.4 U	25 U	9.0 U	10 U	65	1.4 U	4.1 U	3.5 U	25 U	4.4 U	5.0 U	4.0 U	1.9 U	4.4 U	4.0 U	0.60 U	2.5 U	6.7 U	5.9 U	5.0 U	6.3 U	9.8 U	8.4 U	5.0 U	5.1 U	4.4 U	1.4 U	1300	25 U	5.0 U	63	1626																															
		05/06/2014 16:52	3.2 U	2.9 U	1.7 U	13 U	4.5 U	5.0 U	38	0.70 U	2.1 U	1.8 U	13 U	2.2 U	2.5 U	2.0 U	0.95 U	2.2 U	2.0 U	0.30 U	2.5 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	3.9 U	2.6 U	2.2 U	0.70 U	0.60 U	13 U	2.5 U	37	887.9																															
		08/08/2014 10:43	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	58	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	1.5 U	1.0 U	0.88 U	0.28 U	230	5.0 U	1.0 U	32	391.5																															
		11/06/2014 11:05	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	76	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.2	0.51 U	1.1	0.14 U	290	2.5 U	0.82 U	30	489.12																															
		02/05/2015 09:38	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	74	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.3	0.51 U	0.78 U	0.27 U	270	2.5 U	0.71 U	27	457.08																															
5/13/2015 19:16	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	90	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.75 U	0.51 U	0.82 U	0.27 U	190	2.5 U	0.71 U	28	378.57																																	
8/7/2015 10:20	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	65	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.93 U	0.51 U	0.67 U	0.27 U	180	2.5 U	0.71 U	33	335.73																																	
EW 3006_INF	LSAS	11/20/2013 15:00	NA	NA	NA	NA	NA	NA	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	NA	1.5	81	957.9																												
		11/26/2013 13:30	NA	NA	NA	NA	NA	NA	NA	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	270	NA	2.0	79	715.6																											
		12/04/2013 16:38	NA	NA	NA	NA	NA	NA	NA	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	NA	0.97 U	68	578.27																											
		12/11/2013 13:19	NA	NA	NA	NA	NA	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	570	NA	1.7	59	948.7																											
		01/07/2014 15:21	NA	NA	NA	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	460	NA	1.2	65	948.8																											
		02/05/2014 09:48	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	370	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	2.6	1.0 U	1.3 U	0.28 U	180	5.0 U	1.0 U	76	722.9																															
		05/06/2014 16:40	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	220	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	1.3	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	3.4	0.51 U	1.4	0.14 U	140	2.5 U	1.9	50	479.7																															
		08/08/2014 10:52	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	130	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	8.0	0.51 U	0.44 U	0.14 U	110	2.5 U	0.50 U	48 J3	781.5																															
		11/06/2014 10:56	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	89	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	3.5	0.51 U	0.53 U	0.14 U	150	2.5 U	0.50 U	19	282.53																															
		02/05/2015 09:32	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	190	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.0	0.51 U	1.0	0.27 U	91	2.5 U	0.71 U	38	373.8																															
5/14/2015 8:50	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	110	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.9	0.51 U	0.68 U	0.27 U	72	2.5 U	0.71 U	39	266.78																																	
8/7/2015 10:40	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	160	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.0	0.51 U	0.67 U	0.27 U	75	2.5 U	0.71 U	24	279																																	
EW 3007_INF	LSAS	11/20/2013 15:04	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	NA	1.0 U	120	646.9																												
		11/26/2013 13:37	NA	NA	NA	NA	NA	NA	NA	81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	1.3	99	609.4																											
		12/04/2013 16:52	NA	NA	NA	NA	NA	NA	NA	73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	270	NA	1.1	90	597.6																										
		12/11/2013 13:32	NA	NA	NA	NA	NA	NA	NA	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	1.1	88	631.6																											
		01/07/2014 15:27	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	0.78 U	65	590.58																										
		02/05/2014 10:20	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	170	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	11	0.51 U	0.44 U	0.14 U	140	2.5 U	0.50 U	73	499																															
		05/06/2014 16:48	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	88	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	9.1	0.51 U	0.44 U	0.14 U	120	2.5 U	0.50 U	64	357.1																															
		08/08/2014 10:39	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	130	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	8.5	0.51 U	0.44 U	0.14 U	120	2.5 U	0.50 U	43	354.7																															
		11/06/2014 11:02	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	100	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	11	0.51 U	0.62 U	0.14 U	97	2.5 U	0.50 U	62	313.92																															
		02/05/2015 09:36	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	100	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	9.7	0.51 U	0.75 U	0.27 U	94	2.5 U	0.71 U	62	314.45																															
5/13/2015 19:12	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	86	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	3.7	0.51 U																																								

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																					
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	2-Butanone	Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride				
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 3011_INF	LSAS	11/19/2013 17:04	NA	NA	NA	NA	55	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 16:59	NA	NA	NA	NA	73	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/05/2013 11:14	NA	NA	NA	NA	56	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/11/2013 08:34	NA	NA	NA	NA	52	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		01/07/2014 10:49	NA	NA	NA	NA	23	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		02/05/2014 08:52	0.63 U	0.46 U	0.15 U	0.47 U	23	95	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		05/08/2014 09:40	0.63 U	0.46 U	0.15 U	0.47 U	19	73	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		08/08/2014 08:28	0.63 U	0.46 U	0.15 U	0.47 U	28	96 J3	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		11/06/2014 08:09	0.63 U	0.46 U	0.15 U	0.47 U	25	74	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		02/05/2015 10:35	0.63 U	0.47 U	0.17 U	0.47 U	12	32	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		5/13/2015 11:34	0.63 U	0.47 U	0.17 U	0.47 U	4.0	8.7	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		8/7/2015 7:50	0.63 U	0.47 U	0.17 U	0.47 U	2.5	95	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
EW 3012_INF	LSAS	11/20/2013 06:56	NA	NA	NA	NA	97	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 08:25	NA	NA	NA	NA	190	1,100 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 07:11	NA	NA	NA	NA	200	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 07:34	NA	NA	NA	NA	220	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 07:36	NA	NA	NA	NA	180	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 07:24	3.2 U	2.3 U	0.75 U	2.4 U	210	800	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U	2.1 U	2.1 U	2.1 U	
		05/06/2014 07:28	3.2 U	2.3 U	0.75 U	2.4 U	260	1,500	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U	2.1 U	2.1 U		
		08/07/2014 07:13	3.2 U	2.3 U	0.75 U	2.4 U	220	1,000	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U	2.1 U	2.1 U		
		11/06/2014 06:53	3.2 U	2.3 U	0.75 U	2.4 U	180	810	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U	2.1 U	2.1 U		
		02/04/2015 07:26	3.2 U	2.4 U	0.85 U	2.4 U	190	950	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U	2.2 U	2.2 U		
		5/13/2015 7:14	3.2 U	2.4 U	0.85 U	2.4 U	150	850	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U	2.2 U	2.2 U		
		8/6/2015 7:32	3.2 U	2.4 U	0.85 U	2.4 U	140	690	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U	2.2 U	2.2 U		
EW 3013_INF	LSAS	11/20/2013 07:00	NA	NA	NA	NA	100	430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/26/2013 07:17	NA	NA	NA	NA	150	640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/04/2013 07:15	NA	NA	NA	NA	120	480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 07:29	NA	NA	NA	NA	130	460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 07:42	NA	NA	NA	NA	230	540	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 07:31	1.3 U	0.92 U	0.30 U	0.94 U	120	400	0.62 U	1.5 U	0.36 U	1.2 U	1.7 U	5.0 U	0.88 U	1.1 U	1.0 U	1.1 U	1.3 U	0.78 U	1.0 U	0.72 U	17 U	1.3 U	8.8 U	1.0 U	1.4 U	7.6 U	20 U	1.0 U	1.2 U	1.2 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
		5/7/2014 7:32	0.63 U	0.46 U	0.15 U	0.47 U	86	380	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		08/07/2014 07:18	0.63 U	0.46 U	0.15 U	0.47 U	72	300	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		11/06/2014 06:59	0.63 U	0.46 U	0.15 U	0.47 U	72	310	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	0.42 U	0.42 U		
		02/04/2015 07:30	0.63 U	0.47 U	0.17 U	0.47 U	60	260	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		5/13/2015 7:18	0.63 U	0.47 U	0.17 U	0.47 U	46	200	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
		8/6/2015 7:38	0.63 U	0.47 U	0.17 U	0.47 U	41	170	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	0.43 U	0.43 U		
EW 3014_INF	LSAS	11/20/2013 07																																					

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)	Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka: Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Volatile Organics (8260) - SIM D	1,4-Dioxane	Total VOCs																																	
																																						GTCL	100	91	0.4	12	70	2.7	70	70	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	14	100	3	40	100	3	40	100	3	2100	1	GTCL	3.2	1
																																						Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Date / Time Collected:																													Units	ug/L	ug/L																																							
EW 3011_INF	LSAS	11/19/2013 17:04	NA	NA	NA	NA	NA	NA	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	NA	NA	NA	39	NA	1.3	190	508																																		
		11/25/2013 16:59	NA	NA	NA	NA	NA	NA	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	45	NA	1.9	170	604.6																																		
		12/05/2013 11:14	NA	NA	NA	NA	NA	NA	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	45	NA	1.2	130	437.4																																		
		12/11/2013 08:34	NA	NA	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	36	NA	1.4	110	421.2																																		
		01/07/2014 10:49	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	22	NA	0.531	60	240.83																																		
		02/05/2014 08:52	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	3.4	0.14 U	0.41 U	0.35 U	6	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	18	0.51 U	0.44 U	0.14 U	29	2.5 U	0.571	64	238.97																																		
		05/08/2014 09:40	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	4.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	11	0.51 U	0.44 U	0.14 U	24	2.5 U	0.50	57	188.4																																		
		08/08/2014 08:28	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	5.2	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	11	0.51 U	0.44 U	0.14 U	23	2.5 U	0.50 U	60	1090.209																																		
		11/06/2014 08:09	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	6.0	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	8.3	0.51 U	0.44 U	0.14 U	20	2.5 U	0.50 U	81	214.3																																		
		02/05/2015 10:35	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	4.3	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	8.7	0.51 U	0.67 U	0.27 U	16	2.5 U	0.71 U	20	93																																		
		5/13/2015 11:34	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.1	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	4.9	0.51 U	0.67 U	0.27 U	8.0	2.5 U	0.71 U	1.81	29.5																																		
		8/7/2015 7:50	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	7.1	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	4.4	0.51 U	0.67 U	0.27 U	13	2.5 U	0.71 U	80	224.5																																		
		EW 3012_INF	LSAS	11/20/2013 06:56	NA	NA	NA	NA	NA	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	NA	NA	NA	49	NA	3.71	490	1862																																	
				11/26/2013 08:25	NA	NA	NA	NA	NA	NA	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	NA	NA	NA	84	NA	7.4	470	1896.9																																
12/04/2013 07:11	NA			NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	NA	NA	NA	80	NA	5.6	440	1971.6																																		
12/11/2013 07:34	NA			NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	NA	NA	NA	75	NA	7.8	450	1998.1																																		
01/07/2014 07:36	NA			NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	NA	NA	NA	70	NA	4.41	460	1953.4																																		
02/05/2014 07:24	3.2 U			2.9 U	1.7 U	13 U	4.5 U	5.0 U	16	0.70 U	2.1 U	1.8 U	13 U	2.2 U	2.5 U	2.0 U	0.95 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	44	2.6 U	2.2 U	0.70 U	83	13 U	7.1	670	1830.1																																		
05/06/2014 07:28	3.2 U			2.9 U	1.7 U	13 U	4.5 U	5.0 U	20	0.70 U	2.1 U	1.8 U	13 U	2.2 U	2.5 U	2.0 U	0.95 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	56	2.6 U	2.2 U	0.70 U	120	13 U	8.4	550	2514.4																																		
08/07/2014 07:13	3.2 U			2.9 U	1.7 U	13 U	4.5 U	5.0 U	13	0.70 U	2.1 U	1.8 U	13 U	2.2 U	2.5 U	2.0 U	0.95 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	46	2.6 U	2.2 U	0.70 U	100	13 U	5.7	460	1844.7																																		
11/06/2014 06:53	3.2 U			2.9 U	1.7 U	13 U	4.5 U	5.0 U	14	0.70 U	2.1 U	1.8 U	13 U	2.2 U	2.5 U	2.0 U	0.95 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	60	2.6 U	2.2 U	0.70 U	120	13 U	6.8	440	1630.8																																		
02/04/2015 07:26	3.2 U			2.9 U	1.6 U	13 U	4.5 U	5.0 U	16	2.0 U	2.3 U	2.2 U	13 U	2.2 U	2.5 U	1.7 U	2.6 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	87	2.6 U	3.4 U	1.4 U	150	13 U	6.6	340	1739.6																																		
5/13/2015 7:14	3.2 U			2.9 U	1.6 U	13 U	4.5 U	5.0 U	17	2.0 U	2.3 U	2.2 U	13 U	2.2 U	2.5 U	1.7 U	2.6 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	66	2.6 U	3.4 U	1.4 U	120	13 U	3.6 U	300	1503																																		
8/6/2015 7:32	3.2 U			2.9 U	1.6 U	13 U	4.5 U	5.0 U	14	2.0 U	2.3 U	2.2 U	13 U	2.2 U	2.5 U	1.7 U	2.6 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	70	2.6 U	3.4 U	1.4 U	140	13 U	4.51	310	1368.5																																		
EW 3013_INF	LSAS			11/20/2013 07:00	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93	NA	NA	NA	85	NA	2.9	310	1030.9																																	
				11/26/2013 07:17	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	NA	NA	NA	110	NA	3.2	300	1306.2																																
		12/04/2013 07:15	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94	NA	NA	NA	73	NA	2.8	350	1132.8																																		
		12/11/2013 07:29	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	93	NA	3.0	270	1046																																		
		01/07/2014 07:42	NA	NA	NA	NA	NA	NA	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190	NA	NA	NA	220	NA	5.4	270	1542.4																																		
		02/05/2014 07:31	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	11	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	120	1.0 U	0.88 U	0.28 U	98	5.0 U	2.8	310	1061.8																																		
		5/7/2014 7:32	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	15	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	89	0.51 U	0.44 U	0.14 U	88	2.5 U	2.4	200	860.4																																		
		08/07/2014 07:18	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	13	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	99	0.51 U	0.44 U	0.14 U	98	2.5 U	2.3	190	774.3																																		
		11/06/2014 06:59	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	10	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	120	0.51 U	0.44 U	0.14 U	97	2.5 U	1.6	110	720.6																																		
		02/04/2015 07:30	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	10	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	140	0.51 U	0.67 U	0.27 U	110	2.5 U	1.4	75	656.4																																		
		5/13/2015 7:18	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	8.8	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	130	0.51 U	0.67 U	0.27 U	98	2.5 U	0.71 U	61	543.8																																		
		8/6/2015 7:38	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	7.9	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	130	0.51 U	0.67 U	0.27 U	91	2.5 U	0.91	68	506.81																																		
		EW 3014_INF	LSAS	11/20/2013																																																																		







TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)																												Total VOCs							
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka: Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Volatile Organics (8260) - SIM D			
		GTCL	91	0.4	12	70	2.7	70		70	0.6	1400	30	0.02	0.4	0.8	20	5		14					100			3	40	100					1	GTCL	3.2
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
EW 3022_INF	LSAS	11/20/2013 11:16	NA	NA	NA	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	NA	NA	NA	13	NA	0.50 U	150	188.9
		11/25/2013 16:04	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	NA	NA	NA	13	NA	0.50 U	150	192	
		12/04/2013 11:01	NA	NA	NA	NA	NA	NA	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	NA	NA	16	NA	0.50 U	170	218.7	
		12/10/2013 14:04	NA	NA	NA	NA	NA	NA	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	15	NA	0.50 U	180	231.7	
		01/06/2014 15:10	NA	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	NA	NA	NA	15	NA	0.50 U	200	263.3	
		02/04/2014 16:28	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	6.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.2	0.51 U	0.68 U	0.14 U	17	2.5 U	0.50 U	270	340.98	
		05/07/2014 15:40	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	9.9	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.8	0.51 U	0.96 U	0.14 U	17	2.5 U	0.50 U	280	363.66	
		08/07/2014 14:28	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	9.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.2	0.51 U	0.74 U	0.14 U	14	2.5 U	0.50 U	340	419.04	
		11/05/2014 14:52	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	7.6	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.8	0.51 U	0.54 U	0.14 U	13	2.5 U	0.50 U	290	346.94	
		02/04/2015 14:16	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	10	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	2.5	0.51 U	0.67 U	0.27 U	14	2.5 U	0.71 U	260	338.5	
		5/13/2015 10:24	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	10	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.6	0.51 U	0.67 U	0.27 U	14	2.5 U	0.71 U	270	343.4	
		8/6/2015 14:06	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	8.7	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	1.3	0.51 U	0.67 U	0.27 U	8.3	2.5 U	0.71 U	290	362.3	
EW 3023_INF	LSAS	11/20/2013 06:52	NA	NA	NA	NA	NA	NA	9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	NA	NA	NA	61	NA	7.9	510	1685.6	
		11/26/2013 07:10	NA	NA	NA	NA	NA	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	85	NA	6.6	440	1753.6	
		12/04/2013 07:08	NA	NA	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	NA	NA	NA	59	NA	5.3	430	1493.3	
		12/11/2013 07:42	NA	NA	NA	NA	NA	NA	7.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	NA	NA	NA	63	NA	7.0	410	1693.1	
		01/07/2014 07:29	NA	NA	NA	NA	NA	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	NA	NA	NA	60	NA	6.2	340	1608.2	
		02/05/2014 07:16	3.2 U	2.9 U	1.7 U	13 U	4.5 U	5.0 U	9.7	0.70 U	2.1 U	1.8 U	13 U	2.5 U	2.0 U	0.95 U	2.2 U	20 U	3.0 U	13 U	3.4 U	3.0 U	2.5 U	3.2 U	4.9 U	4.2 U	24	2.6 U	2.2 U	0.70 U	55	13 U	4.5 U	390	1183.2		
		05/07/2014 07:20	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	14	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	19	1.0 U	0.88 U	0.28 U	71	5.0 U	4.3	420	1208.3	
		08/07/2014 07:03	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	13	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	14	1.0 U	0.88 U	0.28 U	72	5.0 U	3.7	370	1102.7	
		11/06/2014 06:48	1.3 U	1.2 U	0.88 U	5.0 U	1.8 U	2.0 U	15	0.28 U	0.82 U	0.70 U	5.0 U	0.88 U	1.0 U	0.80 U	0.38 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	16	1.0 U	0.88 U	0.28 U	78	5.0 U	3.8	300	1072.8	
		02/04/2015 07:20	1.3 U	1.2 U	0.82 U	5.0 U	1.8 U	2.0 U	19	0.78 U	0.92 U	0.88 U	5.0 U	0.88 U	1.0 U	0.88 U	1.0 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	21	1.0 U	1.3 U	0.54 U	84	5.0 U	3.7	250	1007.7	
		5/13/2015 7:10	1.3 U	1.2 U	0.82 U	5.0 U	1.8 U	2.0 U	18	0.78 U	0.92 U	0.88 U	5.0 U	0.88 U	1.0 U	0.88 U	1.0 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	18	1.0 U	1.3 U	0.54 U	70	5.0 U	1.4 U	230	850	
		8/6/2015 7:28	1.3 U	1.2 U	0.82 U	5.0 U	1.8 U	2.0 U	15	0.78 U	0.92 U	0.88 U	5.0 U	0.88 U	1.0 U	0.88 U	1.0 U	0.88 U	8.0 U	1.2 U	5.0 U	1.3 U	1.2 U	1.0 U	1.3 U	2.0 U	1.7 U	17	1.0 U	1.3 U	0.54 U	76	5.0 U	2.1	250	834.1	
EW 3024_INF	LSAS	11/20/2013 14:28	NA	NA	NA	NA	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.56 U	NA	NA	NA	12	NA	0.70 U	40	208.66		
		11/25/2013 18:29	NA	NA	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	11	NA	0.61 U	32	199.31		
		12/04/2013 15:25	NA	NA	NA	NA	NA	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	13	NA	0.65 U	30	180.15		
		12/11/2013 12:09	NA	NA	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	9.7	NA	0.87 U	29	170.27		
		01/07/2014 14:49	NA	NA	NA	NA	NA	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	8.7	NA	0.66 U	30	191.66		
		02/05/2014 09:32	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	9.1	2.5 U	0.86 U	36	175.39	
		05/06/2014 16:06	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.9	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	12	2.5 U	0.50 U	34	188.9	
		08/08/2014 09:55	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	2.0	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	15	2.5 U	0.77 U	27	177.77	
		11/06/2014 10:23	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.8	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	12	2.5 U	0.76 U	31	185.1	
		02/05/2015 09:10	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.4	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	11	2.5 U	0.71 U	21	160.4	
		5/13/2015 16:28	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0																													

TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (gas08)																																			
		GTCL	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1,2,2-Dichloropropane	Butanone	Chlorotoluene	Hexanone	Chlorotoluene	4-Isopropyl Toluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride		
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
EW 4001_INF	AF Gravel	11/20/2013 09:04	NA	NA	NA	NA	0.52 U	0.75 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/25/2013 13:48	NA	NA	NA	NA	0.52 U	0.72 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/05/2013 10:12	NA	NA	NA	NA	0.53 I	0.94 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 09:10	NA	NA	NA	NA	0.59 I	0.95 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 09:37	NA	NA	NA	NA	0.63 I	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 15:40	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.96 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U J3	1.0 U	0.42 U		
		05/07/2014 16:16	0.63 U	0.46 U	0.15 U	0.47 U	0.54 I	1.1	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		08/07/2014 12:55	0.63 U	0.46 U	0.15 U	0.47 U	0.64 I	0.89 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		11/05/2014 14:27	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.77 I	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		02/04/2015 11:18	0.63 U	0.47 U	0.17 U	0.47 U	0.64 I	1.3	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
5/13/2015 9:48	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.81 I	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
8/6/2015 14:30	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	1.0	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
EW 4002_INF	AF Gravel	11/19/2013 15:52	NA	NA	NA	NA	3.9	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 11:45	NA	NA	NA	NA	4.8	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/05/2013 09:39	NA	NA	NA	NA	3.4	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/10/2013 11:53	NA	NA	NA	NA	4.6	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/2014 13:36	NA	NA	NA	NA	3.6	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/04/2014 16:16	0.63 U	0.46 U	0.15 U	0.47 U	3.1	13	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U J3	1.0 U	0.42 U		
		05/07/2014 12:04	0.63 U	0.46 U	0.15 U	0.47 U	3.6	13	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		08/07/2014 10:40	0.63 U	0.46 U	0.15 U	0.47 U	3.7	11	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		11/06/2014 08:34	0.63 U	0.46 U	0.15 U	0.47 U	3.1	11	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U		
		02/04/2015 10:58	0.63 U	0.47 U	0.17 U	0.47 U	4.4	13	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U		
5/13/2015 9:32	0.63 U	0.47 U	0.17 U	0.47 U	3.7	10	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
8/6/2015 11:44	0.63 U	0.47 U	0.17 U	0.47 U	3.5	11	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U				
EW 4003_INF	AF Gravel	11/20/2013 14:54	NA	NA	NA	NA	4.0	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/26/2013 13:22	NA	NA	NA	NA	10	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/04/2013 16:31	NA	NA	NA	NA	53	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/11/2013 13:12	NA	NA	NA	NA	49	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/07/2014 15:19	NA	NA	NA	NA	52	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/05/2014 10:12	3.2 U	2.3 U	0.75 U	2.4 U	45	240	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U		
		05/06/2014 16:38	3.2 U	2.3 U	0.75 U	2.4 U	56	330	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U		
		08/08/2014 10:30	6.3 U	4.6 U	1.5 U	4.7 U	41	210	3.1 U	7.7 U	1.8 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	3.9 U	5.2 U	3.6 U	84 U	6.5 U	44 U	5.2 U	6.9 U	38 U	99 U	5.0 U	5.8 U	5.8 U	25 U	10 U	4.2 U		
		11/06/2014 10:53	3.2 U	2.3 U	0.75 U	2.4 U	47	260	1.6 U	3.9 U	0.90 U	2.9 U	4.3 U	13 U	2.2 U	2.9 U	2.6 U	2.7 U	3.2 U	2.0 U	2.6 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	19 U	50 U	2.5 U	2.9 U	2.9 U	13 U	5.0 U	2.1 U		
		02/05/2015 09:30	3.2 U	2.4 U	0.85 U	2.4 U	45	220	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U		
5/13/2015 19:04	3.2 U	2.4 U	0.85 U	2.4 U	29	110	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U				
8/7/2015 10:08	3.2 U	2.4 U	0.85 U	2.4 U	32	140	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	42 U	3.3 U	22 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U				
EW 4004_INF	AF Gravel	11/19/2013 16:58	NA	NA	NA	NA	4.4	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/25/2013 16:42	NA	NA	NA	NA	4.6	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		12/05/2013 11:04	NA	NA																																	







TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (82608)																												Volatile Organics (8260) - SIM D	1,4-Dioxane	Total VOCs				
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene				trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
		GTCL	91	0.4	12	70	2.7	70	70	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	14	100	100	3	40	100	100	3	40	100				100	1.3	2100	1
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Date / Time Collected:																													Units	ug/L	ug/L					
EW 4007_INF	AF Gravel	11/20/2013 11:04	NA	NA	NA	NA	NA	NA	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	1.3	NA	0.50 U	97	112.1	
		11/25/2013 16:00	NA	NA	NA	NA	NA	NA	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	1.7	NA	0.50 U	110	132.6	
		12/05/2013 09:53	NA	NA	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	2.1	NA	0.50 U	120	143.2	
		12/10/2013 13:57	NA	NA	NA	NA	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	1.7	NA	0.50 U	120	142.9	
		01/06/2014 14:54	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	1.1	NA	0.50 U	110	129	
		02/04/2014 15:52	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	2.2	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.73 I	0.14 U	1.1	2.5 U	0.50 U	96	115.66
		05/07/2014 15:32	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	2.3	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.89 I	0.14 U	1.2	2.5 U	0.50 U	110	127.69
		08/07/2014 14:23	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.9	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.79 I	0.14 U	1.4	2.5 U	0.50 U	110	126.79
		11/05/2014 14:47	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	2.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.49 I	0.14 U	1.5	2.5 U	0.50 U	110	128.19
		02/04/2015 13:57	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.5	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	1.5	2.5 U	0.71 U	92	111.9
		5/13/2015 10:16	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.0	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.94 I	2.5 U	0.71 U	89	105.74
		8/6/2015 14:00	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	1.4	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.97 I	2.5 U	0.71 U	87	100.67
EW 4008_INF	AF Gravel	11/20/2013 10:10	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	40	45.1		
		11/26/2013 09:25	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	40	45.2		
		12/05/2013 10:33	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.56 I	NA	0.50 U	41	46.46		
		12/11/2013 09:29	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	39	43.3		
		01/07/2014 10:02	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	36	40.4
		02/04/2014 14:22	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	41	44.83
		05/08/2014 09:00	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	29	30.6
		08/07/2014 13:28	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	26	28.6
		11/05/2014 14:00	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	24	26.5
		02/04/2015 14:03	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	20	22.5
		5/13/2015 14:22	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	20	21.4
		8/6/2015 15:02	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	17	18.94
EW 4009_INF	AF Gravel	11/19/2013 11:20	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	17	20.9		
		11/25/2013 09:29	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	16	19.8		
		12/05/2013 09:18	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.58 I	NA	0.50 U	18	23.38		
		12/10/2013 10:13	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	17	22.1		
		01/06/2014 10:34	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	16	20.3		
		02/04/2014 14:14	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	22	26.43
		05/07/2014 08:54	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	24	33
		08/07/2014 08:22	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.86 I	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	31	40.66
		11/05/2014 10:07	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.5	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	32	44.8
		02/04/2015 09:22	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.0	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	27	42.6
		5/15/2015 9:00	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	1.2	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	24	34.4
		8/6/2015 8:24	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	1.2	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U																			



TABLE 12  
Analytical Results - Extraction Wells

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatiles Organics (82608)																												GTCL	Units	1,4-Dioxane	Total VOCs					
		Chlorobenzene	Chlorobromomethane	Chlorodibromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethane	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene					trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	
		100	91	0.4	12	70	2.7	70	1	70	0.6	1400	30	0.02	0.4	0.8	20	5	14	1	1	1	100	1	3	40	100	3	40					100	3	2100	1	GTCL
ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
EW 5001_INF	S&P Sands	11/19/2013 18:06	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		11/25/2013 17:47	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0	
		12/04/2013 14:35	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.31	2.22	
		12/11/2013 11:05	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.41	2.02	
		01/07/2014 13:49	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	2.3	4.79	
		02/05/2014 09:21	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	4.1	2.5 U	0.50 U	5.0	11.7		
		05/06/2014 15:26	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.4	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	7.4	2.5 U	0.50 U	7.9	18.3		
		08/08/2014 09:21	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.1	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	7.2	2.5 U	0.50 U	5.1	15.33		
		11/06/2014 09:50	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	1.7	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	8.1	2.5 U	0.50 U	4.9	17.05		
		02/05/2015 08:42	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.8	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	7.3	2.5 U	0.71 U	5.8	18		
		5/13/2015 17:56	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	2.6	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	6.4	2.5 U	0.71 U	6.7	17.2		
		8/7/2015 8:48	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	3.4	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	6.6	2.5 U	0.71 U	5.5	17.4		
		EW 5002_INF	S&P Sands	11/19/2013 16:18	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0
				11/25/2013 14:13	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0
				12/05/2013 09:46	NA	NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0
12/10/2013 14:35	NA			NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0		
01/06/2014 14:05	NA			NA	NA	NA	NA	NA	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	0.50 U	NA	0.50 U	1.0 U	0		
02/04/2014 16:42	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
05/07/2014 14:42	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
08/07/2014 14:54	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
11/06/2014 08:48	0.63 U			0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0		
02/04/2015 14:43	0.63 U			0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.71 U	1.0 U	0		

Footnotes:

- GCTL - Groundwater Cleanup Targe Level
- VOCs - Volatile Organic Compounds
- AF - Arcadia Formation
- LSAS - Lower Shallow Aquifer System
- S&P - Salt & Pepper
- USAS - Upper Surficial Aquifer System
- ug/L - micrograms per liter
- SIM - Selective Ion Monitoring
- ID - Isotope Dilution
- B - Analyte was also detected in the associated methor
- D - The value is the result of a secondary dilution.
- E - Sample result is greater than calibration range.
- I - Detected but below reporting limit. Result is an estir
- J or J3 - Estimated value
- L - Estimated value, biased low
- Q - Sample held beyond accepted holding time.
- R - Rejected
- U - The analyte was analyzed for, but not detected.
- UJ - The analyte was analyzed for, but not detected. TI
- V - Indicates the analyte was detected in both the samg
- [ ] - Duplicate sample result
- NA - Not Analyzed
- Bold** - Concentration was detected above
- Bold** - Concentration exceeds GCTL.
- 1 - The analyte was re-run by the laboratory after an

**Table 13**  
Annual and Semi-Annual Groundwater Sampling Program Locations

**Remedial Action Status Report**  
**October, 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

USAS		LSAS		AF Gravels		S&P Sands		Lower AF Sands		Floridan	
Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual
	MW-8D		PZ-LSAS-1		2400 TALLEVAST RD		MW-21	X	MW-19		7500 26TH CT E
	MW-9D		PZ-LSAS-2		<del>1201 Tallevast Rd</del>	X	MW-23		MW-22		2411 Tallevast Rd Well #2
	MW-11R		PZ-LSAS-4		<del>8005 15th Street East</del>	X	MW-34		MW-31		7851 15TH ST E #2
	MW-13D		PZ-LSAS-5		7561/7571 15TH ST E	X	MW-44		MW-50		7921 15TH ST E #2
	MW-15D		PZ-LSAS-6		EW-UAFG-1	X	MW-45		MW-51		MW-123
	MW-162		PZ-LSAS-7	X	IWI-1		MW-49		<del>MW-150</del>		MW-161
	MW-16D	X	MW-33		MW-55		MW-52		MW-155		<del>MW-203</del>
	MW-17D	X	MW-37		MW-83		MW-53		MW-160		MW-251
	MW-20		MW-39	X	MW-102	X	MW-54	1	7	0	7
	MW-24	X	MW-41		MW-124		<del>MW-56</del>				
	MW-25	X	MW-43		MW-127	X	MW-57				
	MW-26	X	MW-48	X	MW-129		MW-58				
X	MW-27	X	MW-68		MW-130		MW-59				
	MW-28		MW-77	X	MW-131		<del>MW-60</del>				
X	MW-29		MW-78		MW-132	X	MW-128				
	MW-30	X	MW-79	X	MW-133		MW-182				
X	MW-32	X	MW-80	X	MW-134		<del>MW-240</del>				
X	MW-35	X	MW-81		MW-135		MW-252				
X	MW-36	X	MW-82		<del>MW-136</del>		IWI-2				
	MW-38		MW-84		MW-143	7	16				
X	MW-40	X	MW-85		MW-148						
X	MW-42	X	<del>MW-86R</del> <sup>U</sup>		<del>MW-152</del>						
X	MW-47		MW-87		MW-158						
	MW-62	X	MW-91		MW-164						
X	MW-63		MW-92		MW-169*						
	MW-64		MW-93		MW-175						
X	MW-65	X	MW-98		MW-185						
	MW-67		MW-101		MW-200						
X	MW-69		MW-105		MW-215						
	MW-70		MW-106		MW-221						
X	MW-71		MW-113	X	MW-231						
X	MW-72		MW-117		MW-232						
	MW-73		MW-119	X	MW-233						
	MW-74		<del>MW-142</del>	X	MW-239						
X	MW-75		MW-152		MW-248						
	MW-76		<del>MW-162</del>	X	MW-249						
	MW-89		MW-168	X	MW-250						
	MW-90		MW-178	X	MW-253						
X	MW-94		MW-220		MW-255						
	MW-95		MW-230	12		35					
X	MW-100		MW-243								
	MW-103	14	39								
X	MW-104										
	MW-107										
X	MW-108										
	MW-109										
	<del>MW-110R</del> <sup>U</sup>										
	MW-111										
XX	MW-114										
	MW-115										
	MW-116										
	MW-118										
	MW-120										
	<del>MW-121</del>										
	MW-126										
	<del>MW-132</del>										
	MW-141										
	MW-146										
	MW-151										
	MW-156										
	MW-219										
	<del>MW-220</del>										
	MW-242										
X	MW-254 (MW-BT-1)										
20	61										

**Footnotes:**

USAS - Upper Surficial Aquifer System  
 LSAS - Lower Shallow Aquifer System  
 AF Gravels - Arcadia Formation Gravels  
 S&P Sands - Salt & Pepper Sands  
 Lower AF Sands - Lower Arcadia Formation Sands  
 MW - Monitoring well  
 Blue XX indicates monitoring well added to the RA sampling program in 2012.  
<sup>U</sup> MW-110 and MW-86 were replaced by MW-110R and MW-86R in 2012.  
 MW-103 was removed from the quarterly/semi-annual schedule following FDEP meeting 01-14-15  
 \* AF Gravels well reclassified as Clay/Sand Zone 1 well.  
 Wells shown in red ~~through~~ were removed from sampling program in 2014 RASR:  
 MW-54 was added to semi-annual sampling following FDEP meeting 01-14-15  
 MW-11R was installed in January 2015 and added back to the annual sampling program  
 Total number of wells listed at the bottom of each column  
 Total Semi-Annual Locations = 54  
 Total Annual Locations = 165

Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallavast Site  
Tallavast, Florida

Sample ID:	Zone:	Date Collected:																																		
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L												
DW-1	CLAY/SAND ZONE 1	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA		
		3/15/2014	0.63 U	0.46 U	0.15 U	0.47 U	5.1	19	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	
		8/27/2014	0.63 U	0.46 U	0.15 U	0.47 U	8.3	20	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	
EW-108	LSAS	11/13/2014	0.63 U	0.47 U	0.47 U	0.47 U	7.1	24	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	
		3/30/2009	NA	2.3 U	1.1 U	2.1 U	56	200	NA	NA	NA	NA	NA	43 U	120 U	22 U	28 U	26 U	27 U	NA	NA	26 U	NA	420 U	NA	NA	NA	34 U	NA	500 U	2.5 U	NA	NA	NA	42 U	NA
		9/14/2010	NA	2.3 U	0.75 U	2.4 U	56	310	NA	NA	NA	NA	NA	4.3 U	12 U	22 U	26 U	27 U	NA	NA	24 U	NA	42 U	NA	NA	NA	3.4 U	NA	50 U	2.5 U	NA	NA	NA	5 U	NA	
EW-UAFG-1	AF Gravels	8/26/2011	NA	0.92 U	0.3 U	0.94 U	52	200 D	NA	NA	NA	NA	1.7 U	5 U	0.88 U	1.1 U	1 U	1.1 U	NA	NA	1 U	NA	17 U	NA	NA	NA	1.4 U	NA	20 U	1 U	NA	NA	NA	20 U	NA	
		8/26/2012	NA	4.6 U	1.5 U	4.7 U	49	300	NA	NA	NA	NA	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	NA	NA	5.2 U	NA	84 U	NA	NA	NA	6.9 U	NA	99 U	5 U	NA	NA	NA	10 U	NA	
		8/26/2014	0.63 U	0.46 U	0.15 U	0.47 U	6.2	19	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U	
IW-1	AF Gravels	8/26/2015	6.3 U	4.7 U	1.7 U	4.7 U	36	140	6.5 U	7.7 U	4.4 U	5.8 U	8.6 U	25 U	4.9 U	5.7 U	5.2 U	5.4 U	6.4 U	4.2 U	6.0 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	40 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	10 U	4.3 U	
		3/30/2009	NA	2.3 U	1.1 U	2.1 U	56	200	NA	NA	NA	NA	NA	43 U	120 U	22 U	28 U	26 U	27 U	NA	NA	26 U	NA	420 U	NA	NA	NA	34 U	NA	500 U	2.5 U	NA	NA	NA	42 U	NA
		3/30/2009	NA	16 U	20 U	32 U	45 J	300	NA	NA	NA	NA	NA	14 U	190 U	13 U	13 U	13 U	14 U	NA	NA	16 U	NA	190 U	NA	NA	NA	17 U	NA	190 U	16 U	NA	NA	NA	45 U	NA
MW-3	USAS	9/9/2010	NA	2.3 U	0.75 U	2.4 U	49	310	NA	NA	NA	NA	4.3 U	12 U	22 U	26 U	27 U	NA	NA	24 U	NA	42 U	NA	NA	NA	3.4 U	NA	80 U	2.5 U	NA	NA	NA	5 U	NA		
		8/26/2011	NA	2.3 U	0.75 U	2.4 U	49	370	NA	NA	NA	NA	4.3 U	13 U	22 U	26 U	27 U	NA	NA	24 U	NA	42 U	NA	NA	NA	3.5 U	NA	50 U	2.5 U	NA	NA	NA	5 U	NA		
		8/26/2012	NA	4.6 U	1.5 U	4.7 U	49	300	NA	NA	NA	NA	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	NA	NA	5.2 U	NA	84 U	NA	NA	NA	6.9 U	NA	99 U	5 U	NA	NA	NA	10 U	NA	
MW-4	USAS	2/11/2014	6.3 U	4.6 U	1.5 U	4.7 U	50	230	3.1 U	7.7 U	4.4 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	3.9 U	5.2 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	38 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	10 U	4.2 U	
		5/15/2014	6.3 U	4.6 U	1.5 U	4.7 U	53	290	3.1 U	7.7 U	1.8 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	3.9 U	5.2 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	38 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	11 U	4.2 U	
		8/25/2014	6.3 U	4.6 U	1.5 U	4.7 U	63	300	3.1 U	7.7 U	1.8 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	3.9 U	5.2 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	38 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	10 U	4.2 U	
MW-5	USAS	11/13/2014	6.3 U	4.7 U	1.7 U	4.7 U	52 U	6.7 U	6.5 U	7.7 U	4.4 U	5.8 U	8.6 U	25 U	4.4 U	5.7 U	5.2 U	5.4 U	6.4 U	4.2 U	6.0 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	40 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	10 U	4.3 U	
		12/10/2014	3.2 U	2.4 U	2.4 U	4.3	220	3.3 U	3.9 U	2.2 U	2.9 U	4.3 U	13 U	2.5 U	2.9 U	2.6 U	2.7 U	3.2 U	2.1 U	3.0 U	1.8 U	4.2 U	3.3 U	2.2 U	2.6 U	3.5 U	20 U	50 U	2.5 U	2.9 U	3.2 U	13 U	5.0 U	2.2 U		
		2/12/2015	0.63 U	0.47 U	0.17 U	0.47 U	41	150	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U	
MW-6	USAS	8/26/2015	6.3 U	4.7 U	1.7 U	4.7 U	30	110	6.5 U	7.7 U	4.4 U	5.8 U	8.6 U	25 U	4.9 U	5.7 U	5.2 U	5.4 U	6.4 U	4.2 U	6.0 U	3.6 U	84 U	6.5 U	4.4 U	5.2 U	6.9 U	40 U	99 U	5.0 U	5.8 U	5.8 U	2.5 U	10 U	4.3 U	
		3/30/2009	NA	0.46 U	0.15 U	0.47 U	2.5	6.7	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA	
		3/30/2009	NA	0.16 U	0.2 U	0.32 U	3.9	4.8	NA	NA	NA	NA	NA	0.14 U	1.5 U	0.13 U	0.13 U	0.13 U	0.14 U	NA	NA	0.17 U	NA	1.8 U	NA	NA	0.17 U	NA	1.9 U	0.16 U	NA	NA	NA	0.45 U	NA	
MW-7	USAS	9/14/2009	NA	0.46 U	0.15 U	0.47 U	5.3	15	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA	
		12/16/2009	NA	0.46 U	0.15 U	0.47 U	4.6	11	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA	
		3/16/2010	NA	0.46 U	0.15 U	0.47 U	4.9	16	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA	
MW-8	S&P Sands	6/10/2010	NA	0.46 U	0.15 U	0.47 U	3	6.1	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA	
		9/15/2010	NA	0.46 U [0.46 U]	0.15 U [0.15 U]	0.47 U [0.47 U]	4.4 [3.5]	4.4 [3.7]	NA	NA	NA	NA	NA	0.86 U [0.86 U]	2.5 U [2.5 U]	0.44 U [0.44 U]	0.57 U [0.57 U]	0.52 U [0.52 U]	0.54 U [0.54 U]	NA	NA	0.52 U [0.52 U]	NA	8.4 U [8.4 U]	NA	NA	0.69 U [0.69 U]	NA	9.9 U [9.9 U]	0.5 U [0.5 U]	NA	NA	NA	1 U [1 U]	NA	
		12/16/2010	NA	0.46 U	0.15 U	0.47 U	3.3	3.8	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
MW-9	USAS	3/10/2011	NA	0.46 U	0.15 U	0.47 U	3.6	6.8	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
		6/9/2011	NA	0.46 U	0.15 U	0.47 U	2.4	2.5	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
		8/30/2011	NA	0.46 U	0.15 U	0.47 U	5.4	13	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
MW-10	USAS	12/12/2011	NA	0.46 U	0.15 U	0.47 U	3.5	6.4	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
		9/19/2012	NA	0.46 U	0.15 U	0.47 U	4.1	9.6	NA	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA	
		8/22/2014	0.63 U	0.46 U	0.15 U	0.47 U	8.0 U	1.4	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5			





Table 14  
 Analytical Results - Summary of Groundwater Effectiveness Monitoring  
 Remedial Action Status Report  
 October, 2015  
 Lockheed Martin Tallahassee Site  
 Tallahassee, Florida

Sample ID:	Zone:	Volatile Organics (E1001)																																
		1,1,1-Trichloroethane	1,1,1,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,3-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane	1,2,3-Trichloroethane									
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L									
MW-13D	USAS	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-13S	USAS	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-14D	USAS	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-14S	USAS	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-15D	USAS	3/1/2009	NA	0.46 U	0.15 U	0.47 U	4.4	0.51	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-15S	USAS	3/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-16D	USAS	4/1/2009	NA	0.46 U [0.46 U]	0.15 U [0.15 U]	0.47 U [0.47 U]	0.52 U [0.52 U]	0.45 U [0.45 U]	NA	NA	NA	NA	0.86 U [0.86 U]	2.5 U [2.5 U]	0.44 U [0.44 U]	0.57 U [0.57 U]	0.52 U [0.52 U]	0.54 U [0.54 U]	NA	NA	0.52 U [0.52 U]	NA	8.4 U [8.4 U]	NA	NA	0.69 U [0.69 U]	NA	9.9 U [9.9 U]	0.5 U [0.5 U]	NA	NA	NA	0.85 U [0.85 U]	NA
MW-17D	USAS	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-17S	USAS	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-18D	USAS	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-18S	USAS	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-19	Lower AF Sands	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-20	USAS	3/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-21	S&P Sands	3/25/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-22	Lower AF Sands	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-23	S&P Sands	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA









Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Remedial Action Status Report																				Total VOCs																	
		Volatiles Organic (BTEX)	Chlorobenzene	Chloroethane	Chlorobromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethane	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane (Dibromodichloromethane)	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene		n-Butylbenzene	n-Propylbenzene	p-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethane	trans-1,2-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane			
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
MW-35	USAS	3/20/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	
		3/20/2009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	33	0.51 U	0.44 U	NA	28	2.5 U	0.5 U	0.54 U	70.4	
		5/26/2009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	24	0.51 U	0.44 U	NA	19	2.5 U	0.5 U	1 U	49.9	
		9/11/2009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	20	0.51 U	0.44 U	NA	15	2.5 U	0.5 U	1 U	42.8	
		12/9/2009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	24	0.51 U	0.44 U	NA	20	2.5 U	0.5 U	1 U	53.4	
		3/17/2010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	15	0.51 U	0.44 U	NA	16	2.5 U	0.5 U	1 U	39.2	
		6/9/2010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	15	0.51 U	0.44 U	NA	15	2.5 U	0.5 U	1 U	38.9	
		9/9/2010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	11	1 U	0.44 U	NA	6.6	2.5 U	0.5 U	1 U	21.2	
		12/10/2010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	4.7	1 U	0.44 U	NA	6.1	2.5 U	0.5 U	1 U	11.49	
		3/9/2011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	10	1 U	0.44 U	NA	6.3	2.5 U	0.5 U	1 U	22.6	
		6/8/2011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	7.7	1 U	0.44 U	NA	6.6	2.5 U	0.5 U	1 U	19.8	
		9/1/2011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	14.1	1 U	0.44 U	NA	5.9	2.5 U	0.5 U	1 U	24.92	
		12/13/2011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	15	0.51 U	0.44 U	NA	6.7	2.5 U	0.5 U	1 U	27.9	
		6/26/2012	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	14	1 U	0.44 U	NA	8.4	2.5 U	0.5 U	1 U	33.4	
		2/6/2014	0.65 U	0.58 U	0.34 U	2.5 U	0.9 U	1 U	0.65 U	0.44 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	0.40 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	10	0.51 U	0.44 U	0.14 U	7	2.5 U	0.5 U	1 U	21.88			
		8/20/2014	0.65 U	0.58 U	0.34 U	2.5 U	0.9 U	1 U	0.65 U	0.44 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	0.40 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	14	0.51 U	0.44 U	0.14 U	21	2.5 U	0.5 U	1 U	43.8			
		11/11/2014	0.65 U	0.58 U	0.34 U	2.5 U	0.9 U	1 U	0.65 U	0.44 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	0.40 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	14	0.51 U	0.44 U	0.14 U	13	2.5 U	0.5 U	1 U	31.3			
		2/12/2015	0.65 U	0.58 U	0.34 U	2.5 U	0.9 U	1 U	0.65 U	0.44 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	0.40 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	17	0.51 U	0.44 U	0.14 U	14	2.5 U	0.5 U	1 U	35.9			
		8/25/2015	0.65 U	0.58 U	0.34 U	2.5 U	0.9 U	1 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	0.40 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	20	0.51 U	0.44 U	0.14 U	14	2.5 U	0.5 U	1 U	36.3			
		MW-36	USAS	3/19/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
3/19/2009	3.2 U			NA	1.7 U	12 U	4.5 U	5 U	14	NA	NA	1.8 U	12 U	2.2 U	NA	NA	NA	2.2 U	20 U	3 U	12 U	NA	NA	2.5 U	NA	NA	NA	NA	NA	3.4 U	2.6 U	2.2 U	NA	400	12 U	2.5 U	NA	9.9	706.3
5/19/2009	1.1 U			NA	1.1 U	2.7 U	1 U	2 U	13	NA	NA	1.1 U	2.1 U	1.1 U	NA	NA	NA	1.7 U	4.8 U	2.3 U	1.1 U	NA	NA	1.3 U	NA	NA	NA	NA	NA	3.3 U	1.1 U	1 U	NA	400	1.9 U	2.7 U	NA	676.1	
5/19/2009	2.5 U			NA	1.4 U	10 U	3.6 U	4 U	13	NA	NA	1.4 U	10 U	1.8 U	NA	NA	NA	1.8 U	16 U	2.4 U	10 U	NA	NA	2 U	NA	NA	NA	NA	NA	2.3 U	2 U	1.8 U	NA	270	10 U	2 U	NA	505.3	
9/14/2009	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	2.2	0.51 U	0.44 U	NA	130 D	2.5 U	0.5 U	1 U	5.9	
12/15/2009	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	3.1	0.51 U	0.44 U	NA	140	2.5 U	0.5 U	1 U	202.5	
3/17/2010	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	0.94 U	0.51 U	0.44 U	NA	110	2.5 U	0.5 U	1 U	144.64	
6/10/2010	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.7	0.51 U	0.44 U	NA	110	2.5 U	0.5 U	1 U	121.3	
9/9/2010	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.5	1 U	0.44 U	NA	110	2.5 U	0.5 U	1 U	119.7	
12/16/2010	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.7	1 U	0.44 U	NA	90	2.5 U	0.5 U	1 U	98.1	
3/8/2011	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	2	1 U	0.44 U	NA	54	2.5 U	0.5 U	1 U	88.8	
6/8/2011	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.3 U	1 U	0.44 U	NA	36	2.5 U	0.5 U	1 U	28.1	
8/25/2011	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.5 U	1 U	0.44 U	NA	22	2.5 U	0.5 U	1 U	24.62	
12/15/2011	0.65 U			NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	1.6 U	0.51 U	0.44 U	NA	19	2.5 U	0.5 U	1 U	20.6	
2/7/2014	0.65 U (0.63 U)			0.58 U (0.58 U)	0.34 U (0.34 U)	2.5 U (2.5 U)	0.90 U (0.90 U)	1.0 U (1.0 U)	0.65 U (0.65 U)	0.44 U (0.44 U)	0.41 U (0.41 U)	0.35 U (0.35																											









Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring  
Remedial Action Status Report  
October, 2015  
Lockhead Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (E001)		Chlorobenzene	Chloroethane	Chloroethene	Chloroethane	Chloroethene	cis-1,2-Dichloroethane	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane aka Bromodichloromethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	p-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethane	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Methylenes Organics (E061) - RM	GTCL	1,4-Dioxane	Total VOCs																				
		100	91																																			0.4	12	70	2.7	70	0.6	70	0.2	0.4	0.8	5	14	100	3	40	100	2100	1	GTCL	1.2
		ug/L	ug/L																																			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45	S&P Sands	3272009	0.65 U	NA	0.34 U	2.5 U	4.8	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.44 U	NA	0.5 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	5.3	11.04																			
		9142010	0.65 U	NA	0.34 U	2.5 U	1.4	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	3.6	5																						
		8172011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	5.3	5.3																						
		6142012	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	3	3																						
		2102014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.34 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	3.1	3.1																				
		5142014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.6	2.6																				
		8142014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0																				
		11122014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.50 U	0.40 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0																				
		2112015	0.65 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	0.34 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0																				
		8252015	0.65 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	0.34 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U	0																				
MW-46	Lower AF Sands	3312009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	1 U	0																						
		3232009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	26	24																						
		5222009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	31	31.93																						
		9102009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	28	28																						
		12112009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	22	25																						
		3152010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	22	23.4																						
		6202010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	34	36																						
		922010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	26	26.88																						
		1292010	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	17	18.2																						
		382011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	21	22.3																						
MW-47	USAS	6202011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	39	41.3																						
		8242011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	26	27.8																						
		12122011	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	43	46																						
		8182012	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	8	8																						
		2562014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.1	2.1																				
		5132014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	5.6	5.6																				
		8142014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.9	3.4																				
		11122014	0.65 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.19 U	0.41 U	0.40 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.1	2.1																				
		2112015	0.65 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	0.34 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.0	2.0																				
		8242015	0.65 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	0.34 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4 U	0.6 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	2.0	2.0																				
MW-48	LSAS	3302009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	0.5 U	1 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	5.9	5.9																						
		922010	0.65 U (0.63 U)	NA	0.34 U (0.34 U)	2.5 U (2.5 U)	0.9 U (0.9 U)	1 U (1 U)	0.65 U (0.65 U)	NA	NA	0.35 U (0.35 U)	2.5 U (2.5 U)	0.44 U (0.44 U)	NA	NA	NA	0.44 U (0.44 U)	4 U (4 U)	0.6 U (0.6 U)	2.5 U (2.5 U)	NA	NA	0.5 U (0.5 U)	NA	NA	0.5 U (0.5 U)	1 U (1 U)	0.44 U (0.44 U)	NA	0.5 U (0.5 U)	2.5 U (2																									















Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Talleast, Florida

Sample ID:	Zone:	Date Collected:		Concentration (ug/L)																																		
		Units	ug/L	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1-Dichloroethane	1,1,1-Dichloroethane	1,2-Dichloroethane	1,2,2,2-Tetrachloroethane	1,2,3-Trichloroethane	1,2,3,3-Tetrachloroethane	1,2,3,4-Tetrachloroethane	1,2,3,4,5-Pentachloroethane	1,2,3,4,5,6-Hexachloroethane	1,2,3,4,5,6,7-Heptachloroethane	1,2,3,4,5,6,7,8-Octachloroethane	1,2,3,4,5,6,7,8,9-Nonachloroethane	1,2,3,4,5,6,7,8,9,10-Decachloroethane	1,2,3,4,5,6,7,8,9,10,11-Undecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12-Dodecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13-Tridecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14-Tetradecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15-Pentadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16-Hexadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Heptadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Octadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Nonadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Eicosa-chloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Hentria-chloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Tricosa-chloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Tetracosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Pentacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Hexacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Heptacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Octacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Nonacosachloroethane
MW-91	LSAS	3/23/2009	NA	0.46 U	0.15 U	0.47 U	4.9	7.9	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-92	LSAS	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-93	LSAS	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-94	USAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-95	USAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-96	Clay/Sand	3/27/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-97	Clay/Sand	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-98	LSAS	3/23/2009	NA	0.46 U	0.15 U	0.47 U	4.9	7.9	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-99	Clay/Sand	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-100	USAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-101	LSAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-102	AF Gravels	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			
MW-103	USAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA			







Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallahassee Site  
Tallahassee, Florida

Sample ID:	Zone:	Volatile Organics (E008)																								4-Methyl-2-pentanone (MMAK)	Acetone	Benzene	Bromobenzene	Bromoforn	Bromomethane	Carbon Disulfide	Carbon tetrachloride		
		OTCL	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2,2-Pentachloroethane	1,1-Dichloroethane	1,1,1-Dichloroethane	1,1,2-Dichloroethane	1,1,2,2-Dichloroethane	1,1,2,2,2-Pentachloroethane	1,2-Dichloroethane	1,2,3-Trichloroethane	1,2,3,4-Tetrachloroethane	1,2,3,4,5-Pentachloroethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2,4-Trichlorobenzene	1,2,4,5-Tetrachlorobenzene	1,2,4,6-Pentachlorobenzene	1,2,4,6,7-Hexachlorobenzene	1,2,4,6,7,8-Heptachlorobenzene	1,2,4,6,7,8,9-Octachlorobenzene	1,2,4,6,7,8,9,10-Nonachlorobenzene	1,2,4,6,7,8,9,10,11-Decachlorobenzene									1,2,4,6,7,8,9,10,11,12-Dodecachlorobenzene	1,2,4,6,7,8,9,10,11,12,13-Tridecachlorobenzene
MW-119	LSAS	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-120	USAS	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-121	USAS	3/25/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-122	USAS	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-123	Floridan	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	1.9 J	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-124	AF Graves	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-125	Venice Clay	3/31/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-126	USAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-127	AF Graves	3/19/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-128	S&P Sands	3/18/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-129	AF Graves	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-130	AF Graves	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	2.5	2.9	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-131	AF Graves	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	1.8	1.991	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA









Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring  
Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID	Zone	Date Collected	Concentration (ug/L)																																
			Volatile Organics (E008)	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Trichloroethane	1,2-Trichloroethane	1,2-Trichloroethane	1,2-Trichloroethane	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane	1,2-Dibromoethane				
MW-153	AF Gravels	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/13/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/24/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		6/27/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		2/6/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
MW-154	S&P Sands	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		3/31/2009	NA	0.46 U [0.46 U]	0.15 U [0.15 U]	0.47 U [0.47 U]	0.52 U [0.52 U]	0.45 U [0.45 U]	NA	NA	NA	NA	0.86 U [0.86 U]	2.5 U [2.5 U]	0.44 U [0.44 U]	0.57 U [0.57 U]	0.52 U [0.52 U]	0.54 U [0.54 U]	NA	NA	0.52 U [0.52 U]	NA	8.4 U [8.4 U]	NA	NA	NA	0.69 U [0.69 U]	NA	9.9 U [9.9 U]	0.5 U [0.5 U]	NA	NA	NA	0.85 U [0.85 U]	NA
		9/13/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/24/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		6/27/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
MW-155	Lower AF Sands	8/14/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		8/10/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
		3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/18/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
MW-156	USAS	7/9/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/12/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		8/12/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
		3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
MW-157	LSAS	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		3/23/2009	NA	0.46 U	0.15 U	0.47 U	2.8	3.7	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		5/20/2009	NA	0.46 U	0.15 U	0.47 U	2.7	3.2	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		12/10/2009	NA	0.46 U	0.15 U	0.47 U	2.7	3.2	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		3/15/2010	NA	0.46 U	0.15 U	0.47 U	1.3	1.1	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-158	AF Gravels	6/3/2010	NA	0.46 U [0.46 U]	0.15 U [0.15 U]	0.47 U [0.47 U]	1.5 [1.6]	1.2 [1.3]	NA	NA	NA	NA	0.86 U [0.86 U]	2.5 U [2.5 U]	0.44 U [0.44 U]	0.57 U [0.57 U]	0.52 U [0.52 U]	0.54 U [0.54 U]	NA	NA	0.52 U [0.52 U]	NA	8.4 U [8.4 U]	NA	NA	NA	0.69 U [0.69 U]	NA	9.9 U [9.9 U]	0.5 U [0.5 U]	NA	NA	NA	0.85 U [0.85 U]	NA
		9/9/2010	NA	0.46 U	0.15 U	0.47 U	2.4	1.3	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		12/13/2010	NA	0.46 U	0.15 U	0.47 U	1.7	1.7	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		3/9/2011	NA	0.46 U	0.15 U	0.47 U	1.1	0.71 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		6/2/2011	NA	0.46 U	0.15 U	0.47 U	1.4	1.2	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
MW-159	S&P Sands	8/18/2011	NA	0.46 U	0.15 U	0.47 U	2.4	2.4	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		12/7/2011	NA	0.46 U	0.15 U	0.47 U	1.4	0.71 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		6/19/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/12/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		8/12/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
MW-160	Lower AF Sands	3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		3/30/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1.0 U	NA
		8/18/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U																	





Table 14  
 Analytical Results - Summary of Groundwater Effectiveness Monitoring  
 Remedial Action Status Report  
 October, 2015  
 Lockheed Martin Tallevast Site  
 Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (E008)																												Total VOCs				
		Date Collected:																																
		Chlorobenzene	Chlorobromobenzene	Chlorodibromobenzene	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	1,1,2-Dichloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane		
4/1/2009	0.65 U	NA	0.34 U	2.5 U	0.9 U	1 U	0.65 U	NA	NA	0.35 U	2.5 U	0.44 U	NA	NA	NA	0.44 U	4 U	0.6 U	2.5 U	NA	NA	0.5 U	NA	NA	NA	0.5 U	0.51 U	0.44 U	NA	0.5 U	2.5 U	0.5 U	1 U	0

Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (E010)																																	
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2,2-Pentachloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2,2-Trichloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane	1,2,2,2-Tetrachloroethane							
MW-226	AF Gravels	3/25/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-227	S&P Sands	3/24/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-228	AF Gravels	3/26/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-229	USAS	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		8/18/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		6/26/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
MW-230	LSAS	8/18/2014	0.63 U [0.63 U]	0.46 U [0.46 U]	0.15 U [0.15 U]	0.47 U [0.47 U]	0.52 U [0.52 U]	0.45 U [0.45 U]	0.31 U [0.31 U]	0.77 U [0.77 U]	0.18 U [0.18 U]	0.58 U [0.58 U]	0.86 U [0.86 U]	2.5 U [2.5 U]	0.44 U [0.44 U]	0.57 U [0.57 U]	0.52 U [0.52 U]	0.54 U [0.54 U]	0.64 U [0.64 U]	0.39 U [0.39 U]	0.52 U [0.52 U]	0.36 U [0.36 U]	8.4 U [8.4 U]	0.65 U [0.65 U]	4.4 U [4.4 U]	0.52 U [0.52 U]	0.69 U [0.69 U]	3.8 U [3.8 U]	9.9 U [9.9 U]	0.50 U [0.50 U]	0.58 U [0.58 U]	0.58 U [0.58 U]	2.5 U [2.5 U]	1.0 U [1.0 U]	0.42 U [0.42 U]
		8/19/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
		4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
MW-231	AF Gravels	8/18/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		6/21/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		2/6/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		5/13/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
MW-232	AF Gravels	8/18/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		6/20/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		8/14/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		8/24/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
MW-233	AF Gravels	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/3/2010	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		8/29/2011	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
		6/20/2012	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	1 U	NA
MW-234	USAS	2/6/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		5/14/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		8/14/2014	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U	1.0 U	0.42 U
		2/10/2015	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.67 U	0.65 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	8.4 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	1.0 U	0.43 U
MW-235	LSAS	4/13/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		4/13/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-237	S&P Sands	4/14/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-238	Lower AF Sands	4/14/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		3/23/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
MW-239	AF Gravels	5/21/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		9/10/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86																						









Table 14  
Analytical Results - Summary of Groundwater Effectiveness Monitoring

Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (E1005)																																	
		Units																																	
		Date Collected:																																	
RW-1	USAS	4/2/2009	NA	0.46 U	0.15 U	0.47 U	110	7.8	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		4/2/2009	NA	0.53 U	0.67 U	1.1 U	110	6.6	NA	NA	NA	NA	0.47 U	5 U	0.43 U	0.43 U	0.47 U	NA	NA	0.53 U	NA	6.1 U	NA	NA	NA	0.57 U	NA	6.3 U	0.53 U	NA	NA	NA	1.5 U	NA	
RW-2	USAS	4/2/2009	NA	0.46 U	0.15 U	0.47 U	0.78 J	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		4/2/2009	NA	0.16 U	0.2 U	0.32 U	0.73 J	0.26 J	NA	NA	NA	NA	0.14 U	1.5 U	0.13 U	0.13 U	0.13 U	0.14 U	NA	NA	0.16 U	NA	1.8 U	NA	NA	NA	0.17 U	NA	1.9 U	0.16 U	NA	NA	NA	0.45 U	NA
TW-84-A	USAS	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
TW-84-B	USAS	4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA
		4/1/2009	NA	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	NA	NA	NA	NA	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	0.69 U	NA	9.9 U	0.5 U	NA	NA	NA	0.85 U	NA

Footnotes:  
GCTL - Groundwater Cleanup Target Level  
VOCs - Volatile Organic Compounds  
AF - Acetate Formation  
LSAS - Lower Shallow Aquifer System  
SAP - Salt & Pepper  
USAS - Upper Surficial Aquifer System  
PAHs - polycyclic aromatic hydrocarbons  
ug/L - micrograms per liter  
SM - Selective Ion Monitoring  
ID - Isotope Dilution  
B - Analyte was also detected in the associated method blank.  
D - The value is the result of a secondary dilution.  
E - Sample result is greater than calibration range.  
I - Detected but below reporting limit. Result is an estimated concentration  
J or J1 - Estimated value  
L - Estimated value, biased low  
Q - Sample held beyond accepted holding time  
R - Retested  
U - The analyte was analyzed for, but not detected  
UJ - The analyte was analyzed for, but not detected. The reporting limit is an estimated value  
V - Indicates the analyte was detected in both the sample and the associated method blank  
[] - Duplicate sample result  
Dup - data representing a duplicate sample result as of February 2015  
NA - Not Analyzed  
Bold - Concentration was detected above the laboratory method detection limit.  
Concentration exceeds GCTL.  
1 - The analyte was re-run by the laboratory after an unexpected detection



Table 15  
Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring

Remedial Action Status Report  
October 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Location ID:	Date Collected	GCTL Units Sample Name	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
CO-A1D	3/10/2008	CO-A1D	350,000	98	2.4 I	71,000	77	690,000
	4/23/2008	CO-A1D	4,400,000 J	NA	NA	43,000 V	960	6,800,000
	5/7/2008	CO-1AD	4,800,000	9,500	530 V	120,000	930	13,000,000
	5/13/2008	CO-A1D	3,900,000	NA	NA	130,000	810	5,800,000
	6/4/2008	CO-A1D	2,400,000	6,000	320	100,000	620	3,600,000
	7/9/2008	CO-A1D	1,400,000	3,800	160	71,000	280	2,000,000
	9/18/2008	CO-A1D	590,000	NA	NA	43,000	110	990,000
	10/28/2008	CO-1AD	NA	1,500	97	31,000	75	710,000
	11/28/2008	CO-1AD	364,000	NA	NA	NA	NA	NA
	1/26/2009	CO-A1D	300,000	1,000	67	28,000	70	620,000
	4/2/2009	CO-A1D (UIC)	260,000	910	52 V	24,000	59	500,000
	7/13/2009	CO-A1D	220,000	1,000	23	22,000	46	450,000
	9/16/2009	CO-A1D	200,000	1,100	20	22,000	41	430,000
	12/17/2009	CO-A1D	210,000 [190,000]	830 [820]	20 [21]	25,000 [25,000]	40 [40]	340,000 [340,000]
	3/18/2010	CO-A1D	190,000	810	22	28,000 J	41	410,000
	6/9/2010	CO-A1D	170,000	830	12	23,000	30	310,000
	9/15/2010	CO-A1D	200,000	640	11	27,000	35	410,000
	12/14/2010	CO-A1D	210,000 [190,000]	630 [650]	14 [15]	26,000 [25,000]	30 [29]	340,000 [340,000]
	3/10/2011	CO-A1D	78,000	450	6 I	8,900	11	160,000
	6/9/2011	CO-A1D	140,000	450	6.5 I	22,000	22	250,000
	12/15/2011	CO-A1D	160,000 [180,000]	510 [450]	7.1 I [6.1 I]	20,000 [22,000]	19 [22]	230,000 [300,000]
	6/28/2012	CO-A1D	200,000	390	6.6 I	19,000	NA	310,000
	1/16/2013	CO-A1D	150,000 [140,000]	290 [280]	9.8 I [9.1 I]	16,000 [16,000]	NA	240,000 [260,000]
	6/11/2013	CO-A1D	170,000	200	7.6 I	18,000	NA	250,000
	12/19/2013	CO-A1D	140,000	440	4.0 U	15,000	NA	230,000
6/19/2014	CO-A1D	190,000	270	4.0 U	19,000	NA	330,000	
8/27/2014	CO-A1D	160,000	300	4.0 U	16,000	NA	280,000	
8/25/2015	CO-A1D	NA	260	NA	NA	NA	NA	
CO-B1D	3/11/2008	CO-B1D	270,000	60	0.94 I	52,000	55	520,000
	4/23/2008	CO-B1D	960,000	NA	NA	60,000 V	170	1,400,000
	5/6/2008	CO-B1D	1,200,000	680	33 V	85,000 V	120	1,400,000
	5/13/2008	CO-B1D	900,000	NA	NA	76,000	100	1,200,000
	6/3/2008	CO-B1D	550,000	200	27	43,000	61	680,000
	7/10/2008	CO-B1D	320,000	220	4.5 I	28,000	36	480,000
	9/18/2008	CO-B1D	220,000	NA	NA	3,300	4	410,000
	10/27/2008	CO-B1D	210,000	190 I	12	22,000	29	400,000
	1/26/2009	CO-B1D	200,000	160 I	9.4 I	25,000	33	420,000
	4/2/2009	CO-B1D (UIC)	180,000	250	18 V	26,000	35	390,000
	7/13/2009	CO-B1D	180,000	280	8 I	24,000	29	300,000
	9/16/2009	CO-B1D	160,000	320	4 U	21,000	23	340,000
	12/17/2009	CO-B1D	160,000 J	310	4 U	24,000	23	320,000
	3/18/2010	CO-B1D	140,000	320	4.2 I	23,000	19	300,000
	6/9/2010	CO-B1D	140,000	280	4 U	19,000	15	270,000
	9/15/2010	CO-B1D	100,000	260	4 U	14,000	10	230,000
	12/14/2010	CO-B1D	130,000	270	5.3 I	16,000	11	250,000
	3/10/2011	CO-B1D	110,000 [110,000]	470 [240]	4 U [4 U]	17,000 [14,000]	9.9 [10]	200,000 [180,000]
	6/9/2011	CO-B1D	90,000	210	4 U	11,000	9	160,000
	12/14/2011	CO-B1D	66,000	170 I	4 U	7,900	6	140,000
	6/28/2012	CO-B1D	130,000	130 I	4 U	12,000	NA	180,000
	1/16/2013	CO-B1D	98,000	110 I	4 U	8,900	NA	190,000
	6/11/2013	CO-B1D	130,000	140 I	4.9 I	16,000	NA	220,000
	12/19/2013	CO-B1D	140,000	140 I	4.0 U	14,000	NA	260,000
	6/18/2014	CO-B1D	190,000	110 I	4.0 U	14,000	NA	330,000
8/28/2014	CO-B1D	160,000	140 I	4.0 U	11,000	NA	280,000	
CO-B4D	3/12/2008	CO-B4D	350,000	120	10	56,000	92	640,000
	4/23/2008	CO-B4D	1,400,000	NA	NA	75,000 V	260	2,200,000
	5/7/2008	CO-B4D	550,000	1,500	21 V	60,000	92	880,000
	5/13/2008	CO-B4D	500,000	NA	NA	60,000	76	770,000
	6/3/2008	CO-B4D	430,000	280	12	61,000	65	620,000
	7/10/2008	CO-B4D	380,000	230	4 U	40,000	39	610,000
	9/19/2008	CO-B4D	320,000	NA	NA	49,000	49	540,000
	10/28/2008	CO-B4D	NA	180 I	7.6 I	49,000	49	610,000
	11/28/2008	CO-B4D	311,000	NA	NA	NA	NA	NA
	1/26/2009	CO-B4D	320,000	180 I	9 I	50,000	51	630,000
	4/2/2009	CO-B4D (UIC)	340,000	290	9 IV	52,000	49	650,000
	7/13/2009	CO-B4D	390,000 J	330	4.8 I	56,000 J	54	730,000
	9/16/2009	CO-B4D	430,000	350	4 U	60,000	54	890,000
	12/17/2009	CO-B4D	460,000 J	350	4.6 I	62,000	56	820,000
	3/18/2010	CO-B4D	460,000	310	4 U	66,000	57	900,000
	6/9/2010	CO-B4D	510,000	320	4 U	69,000	59	960,000
	9/16/2010	CO-B4D	500,000 [510,000]	300 [300]	4 U [4 U]	70,000 [70,000]	58 [58]	1,000,000 [1,000,000]
	12/14/2010	CO-B4D	710,000 J	310	4 U	64,000 J	57	970,000
	3/10/2011	CO-B4D	740,000	290	4 U	62,000	57	900,000
	6/9/2011	CO-B4D	480,000 [480,000]	320 [310]	4 U [4 U]	65,000 [66,000]	60 [59]	880,000 [860,000]
	12/14/2011	CO-B4D	470,000	240	4 U	54,000	47	800,000
	6/28/2012	CO-B4D	230,000	270	4 U	21,000	NA	360,000
	1/16/2013	CO-B4D	210,000	200	4.8 I	18,000	NA	320,000
	6/11/2013	CO-B4D	190,000	240	4 I	17,000	NA	240,000
	12/19/2013	CO-B4D	140,000	150 I	4.0 U	13,000	NA	230,000
6/19/2014	CO-B4D	120,000	160 I	4.0 U	12,000	NA	210,000	
8/28/2014	CO-B4D	120,000	180 I	4.0 U	12,000	NA	240,000	
CO-C1D	3/12/2008	CO-C1D	270,000	190	3	39,000	28	520,000
	4/23/2008	CO-C1D	280,000	NA	NA	34,000 V	22	440,000
	5/6/2008	CO-C1D	240,000	170	2.3 IV	18,000 V	11	280,000
	5/13/2008	CO-C1D	180,000	NA	NA	22,000	13	360,000
	6/3/2008	CO-C1D	260,000	150	1.5 I	24,000	17	280,000
	7/10/2008	CO-C1D	190,000	220	4 U	19,000	12	300,000
	9/18/2008	CO-C1D	220,000	NA	NA	29,000	19	390,000
	10/27/2008	CO-C1D	NA	200	4.1 I	30,000	19	420,000
	11/27/2008	CO-C1D	225,000	NA	NA	NA	NA	NA
	1/26/2009	CO-C1D	200,000	190 I	4.7 I	29,000	20	400,000
	4/2/2009	CO-C1D (UIC)	210,000	290	8.9 IV	34,000	21	410,000
	7/13/2009	CO-C1D	230,000	190 I	4 U	29,000	19	440,000
	9/16/2009	CO-C1D	330,000	200	4 U	26,000	16	490,000
	12/17/2009	CO-C1D	290,000	240	4 U	36,000	22	510,000
	3/18/2010	CO-C1D	310,000	230	4 U	36,000	21	610,000
	6/9/2010	CO-C1D	350,000	240	4 U	40,000	23	680,000
	9/16/2010	CO-C1D	300,000 [300,000]	220 [220]	4 U [4.4 I]	36,000 [37,000]	20 [21]	600,000 [630,000]
	12/14/2010	CO-C1D	410,000	260	4 U	34,000	19	590,000
	3/10/2011	CO-C1D	400,000	220	4 U	33,000	20	490,000
	6/9/2011	CO-C1D	280,000	190 I	4 U	26,000	17	460,000
	12/15/2011	CO-C1D	270,000	180 I	4 U	26,000	17	410,000
	6/28/2012	CO-C1D	190,000 [200,000]	76 I [61 I]	4 U [4 U]	13,000 [13,000]	NA	320,000 [300,000]
	1/16/2013	CO-C1D	170,000	110 I	4 U	12,000	NA	270,000
	6/11/2013	CO-C1D	160,000	1,000	4 U	9,200	NA	280,000
	12/19/2013	CO-C1D	160,000	1,400	4.0 U	10,000	NA	250,000
6/18/2014	CO-C1D	160,000	210	4.0 U	8,600	NA	300,000	
8/28/2014	CO-C1D	190,000	160 I	4.0 U	12,000	NA	310,000	
8/25/2015	CO-C1D	NA	160 I	NA	NA	NA	NA	

**Table 15**  
**Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			Units	ug/L	ug/L	ug/L	ug/L	ug/L
		Sample Name						
CO-D1D	3/12/2008	CO-D1D	250,000	240	4	44,000	36	490,000
	4/23/2008	CO-D1D	220,000	NA	NA	32,000 V	27	380,000
	5/7/2008	CO-D1D	210,000	150	1.8 IV	27,000	20	350,000
	5/13/2008	CO-D1D	200,000	NA	NA	21,000	18	350,000
	6/3/2008	CO-D1D	320,000	140	1.4 I	35,000	29	440,000
	7/9/2008	CO-D1D	270,000	240	4 U	27,000	20	360,000
	9/16/2008	CO-D1D	210,000 J	NA	NA	31,000	25	390,000
	10/27/2008	CO-D1D	NA	360	4 U	39,000	30	420,000
	11/27/2008	CO-D1D	230,000	NA	NA	NA	NA	NA
	1/26/2009	CO-D1D	240,000	150 I	4 U	41,000	32	460,000
	4/2/2009	CO-D1D (UIC)	250,000	170 I	8.7 IV	47,000	35	480,000
	7/13/2009	CO-D1D	220,000	160 I	4 U	29,000 J	20	410,000
	9/16/2009	CO-D1D	250,000	210	4 U	38,000	26	550,000
	12/17/2009	CO-D1D	280,000	230	4 U	44,000	29	500,000
	3/19/2010	CO-D1D	320,000 J	230	4 U	51,000 J	33	610,000
	6/9/2010	CO-D1D	370,000	250	4 U	54,000 J	33	670,000
	9/16/2010	CO-D1D	320,000	220	4 U	53,000	30	640,000
	12/14/2010	CO-D1D	590,000	260	5.2 I	58,000	33	730,000
	3/10/2011	CO-D1D	450,000	250	4 U	60,000	38	750,000
	6/9/2011	CO-D1D	380,000 J	260	4 U	59,000	41	660,000
	12/15/2011	CO-D1D	320,000	230	4 U	41,000	28	500,000
	6/28/2012	CO-D1D	160,000 [170,000]	200 [190 I]	4 U [4 U]	20,000 [19,000]	NA	250,000 [280,000]
	1/16/2013	CO-D1D	320,000 J	340	4 U	38,000	NA	490,000
	6/11/2013	CO-D1D	120,000	270	4 U	12,000	NA	210,000
	12/19/2013	CO-D1D	130,000	160 I	5.5 I	14,000	NA	230,000
6/18/2014	CO-D1D	150,000	190 I	4.0 U	20,000	NA	290,000	
8/28/2014	CO-D1D	190,000	190 I	4.0 I	20,000	NA	280,000	
EXL-1 (EW-108)	6/13/2013	EXL-1 (EW-108)	110,000	50 U	4 U	1,300 J	11	300,000
	12/18/2013	EW-108	300,000	50 U	7.0 I	18,000	NA	580,000
	6/17/2014	EW-108	190,000	52 I	8.6 I	13,000	NA	500,000
	8/27/2014	EW-108	340,000	100 I	14	21,000	NA	640,000
	8/25/2015	EW-108	240,000	NA	9.2 I	15,000 J	NA	590,000
	8/25/2015	EW-108 Dup	NA	NA	9.8 I	NA	NA	NA
MW-3	2/13/2001	TT-MW-003-20010213	37,000	NA	NA	NA	NA	NA
	6/17/2004	T-MW-003D_2004061	NA	732	1.8 I	NA	1.4 I	NA
	1/5/2005	TT-MW-003-20050105	17,000	NA	NA	50 U	10 U	NA
	9/11/2007	MW-3	NA	600	4 U	110	NA	NA
	3/13/2008	MW-3	24,000	54	1.5 I	47 I	1.5 I	160,000
	4/23/2008	MW-3	15,000	NA	NA	97 IV	1.3 I	98,000
	5/7/2008	MW-3	33,000	120	1.5 IV	110 V	1.7 I	160,000
	5/13/2008	MW-3	52,000	NA	NA	83 I	1.8 I	250,000
	6/4/2008	MW-3	64,000	44 I	1.3 I	96 I	3.7 I	230,000
	7/10/2008	MW-3	7,000	340	4 U	50 U	4 U	62,000
	9/16/2008	MW-3	16,000	NA	NA	50 U	1 U	160,000
	10/29/2008	MW-3	40,000 UJ	68 I	4 U	50 U	1 U	150,000
	1/27/2009	MW-3	16,000 J [15,000]	96 I [89 I]	4 U [4 U]	50 U [50 U]	1.2 I [1.1 I]	150,000 [150,000]
	4/2/2009	MW-3 (BW)	NA	NA	NA	50 U	1.1 I	NA
	4/2/2009	MW-3 (UIC)	12,000	100 I	6.3 IV	68 I	1.4 I	120,000
	7/15/2009	MW-3	11,000	87 I	4 U	50 U	1 U	110,000
	9/16/2009	MW-3	9,300	80 I	4 U	50 U	1 U	110,000
	12/17/2009	MW-3	7,700	69 I	4 U	50 U	1 U	120,000
	3/17/2010	MW-3	7,100	130 I	4 U	50 U	1 U	88,000
	6/8/2010	MW-3	9,300	50 U	4 U	50 U	1.1 I	120,000
	9/16/2010	MW-3	6,300	470	4 U	70 I	1 U	60,000
	12/15/2010	MW-3	6,800	87 I	4.7 I	50 U	1.1 I	110,000
	3/9/2011	MW-3	16,000	200	4 U	83 I	1.1 I	100,000
	6/6/2011	MW-3	24,000 J	50 U	4 U	50 U	1 U	110,000
	12/14/2011	MW-3	200 U	50 U	4 U	77 I	1 I	120,000
6/28/2012	MW-3	4,300	89 I	4 U	50 U	NA	82,000	
1/17/2013	MW-3	11,000 [11,000]	120 I [120 I]	4 U [4 U]	50 U [50 U]	NA	170,000 [180,000]	
6/13/2013	MW-3	98,000 J	50 U	4 U	50 U	NA	210,000	
12/17/2013	MW-3	41,000	86 I	4.0 U	68 I	NA	190,000	
6/19/2014	MW-3	53,000	60 I	4.0 U	50 U	NA	160,000	
8/26/2014	MW-3	11,000	150 I	4.0 U	50 U	NA	76,000	
MW-4	2/13/2001	TT-MW-004-20010213	380,000	NA	NA	NA	NA	NA
	6/17/2004	T-MW-004D_2004061	NA	2,010	1.2 I	NA	15	NA
	9/11/2007	MW-4	NA	290	4 U	2,500	NA	NA
	3/13/2008	MW-4	250,000	290	0.7 I	3,300	19	500,000
	4/23/2008	MW-4	250,000	NA	NA	1,600 V	17	470,000
	5/8/2008	MW-4	290,000	200	1.1 IV	1,700 V	18	490,000
	5/13/2008	MW-4	220,000	NA	NA	570	15	440,000
	6/5/2008	MW-4	230,000 J	260	0.61 I	920	17	430,000
	7/9/2008	MW-4	220,000	360	4 U	980	16	430,000
	9/16/2008	MW-4	210,000	NA	NA	4,100	17	370,000
	10/30/2008	MW-4	190,000 J	360	4 U	2,400	13	380,000
	1/28/2009	MW-4	140,000	160 I	4 U	1,300	11	320,000
	4/2/2009	MW-4 (UIC)	260,000	420	4.4 IV	12,000	17	520,000
	7/15/2009	MW-4	140,000	160 I	4 U	1,400	10	310,000
	9/16/2009	MW-4	100,000	440	4 U	1,400	8	300,000
	12/17/2009	MW-4	110,000 J	250	4 U	470	11	270,000
	3/11/2010	MW-4	190,000	210	4 U	820	13	400,000
	6/8/2010	MW-4	190,000	430	4 U	1,300	11	390,000
	9/8/2010	MW-4	160,000	140 I	4 U	2,700	14	390,000
	12/16/2010	MW-4	150,000	73 I	4 U	200	9	320,000
	3/11/2011	MW-4	160,000	240	4 U	410	8	290,000
	6/8/2011	MW-4	260,000 J	170 I	4 U	210	10	450,000
	12/14/2011	MW-4	72,000	140 I	4 U	740	3 I	170,000
	6/20/2012	MW-4	310,000	330	4 U	1,200	NA	440,000
	1/16/2013	MW-4	260,000	210	4 U	200	NA	450,000
6/13/2013	MW-4	97,000	220	4 U	320	NA	270,000	
12/18/2013	MW-4	110,000	77 I	4.0 U	110 I	NA	210,000	
6/19/2014	MW-4	49,000	110 I	4.0 U	69 I	NA	170,000	
8/26/2014	MW-4	55,000	97 I	4.0 U	140 I	NA	130,000	

**Table 15**  
**Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Sample Name						
MW-32	6/27/2005	TT-MW-032-20050627	277,000	NA	NA	20,400	33	NA
	1/31/2006	MW-32	210,000	NA	NA	17,000	19	NA
	9/10/2007	MW-32	NA	140 I	4 U	20,200	NA	NA
	3/13/2008	MW-32	240,000	500	2.2 I	26,000	22	420,000
	4/1/2008	MW-32-040108-1449	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-32	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-32	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-32	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-32	NA	470	2.7 V	12,000	13	NA
	4/28/2008	MW-32	NA	NA	NA	NA	NA	NA
	5/8/2008	MW-32	240,000	83	3.1 V	15,000	11	370,000
	5/13/2008	MW-32	210,000	NA	NA	17,000	12	500,000
	6/5/2008	MW-32	230,000	120	2.1 I	16,000	14	400,000
	6/10/2008	MW-32	NA	150 I	4.8 UJ	19,000	NA	NA
	7/10/2008	MW-32	290,000	130 I	4 U	21,000	15	550,000
	9/16/2008	MW-32	340,000	130 I	4 U	28,000	21	570,000
	10/29/2008	MW-32	310,000	150 I	4 U	25,000	19	540,000
	1/26/2009	MW-32	270,000	93 I	4 U	22,000	17	500,000
	3/23/2009	MW-32 (BW)	NA	NA	NA	22,000	16	NA
	3/23/2009	MW-32 (IRAP)	NA	NA	NA	NA	NA	NA
	3/23/2009	MW-32 (UIC)	250,000	97 I	4 U	22,000	16	500,000
	5/29/2009	MW-32	NA	NA	NA	NA	NA	NA
	7/8/2009	MW-32	290,000	83 I	4 U	22,000	16	560,000
	9/14/2009	MW-32	350,000	88 I	5 I	25,000	18	660,000
	12/15/2009	MW-32	250,000	86 I	4 U	19,000	13	430,000
	3/17/2010	MW-32	160,000	110 I	4.2 I	16,000	11	330,000
	6/4/2010	MW-32	76,000	72 I	4.7 I	6,100	3.7 I	170,000
	9/8/2010	MW-32	50,000	62 I	4 U	5,400	3.1 I	140,000
	12/13/2010	MW-32	44,000	50 U	4 U	5,000	3.7 I	150,000 Q
	3/11/2011	MW-32	90,000	160 I	4 U	8,500	5	190,000
	6/8/2011	MW-32	36,000	110 I	5 I	5,100 J	2.3 I	130,000
	12/12/2011	MW-32	24,000	50 U	4 U	3,000	7	88,000
	6/19/2012	MW-32	55,000	61 I	4 U	4,400	NA	140,000
	1/16/2013	MW-32	33,000	50 U	4 U	3,700	NA	110,000
	6/12/2013	MW-32	38,000	79 I	4 U	4,100	NA	110,000
	12/18/2013	MW-32	60,000	350	4.1 I	5,800	NA	110,000
	6/18/2014	MW-32	17,000	69 I	5.1 I	3,300	NA	88,000
	8/27/2014	MW-32	18,000	50 U	5.5 I	3,100	NA	80,000
MW-33	4/24/2007	MW-33	NA	104	0.98 U	NA	NA	NA
	7/10/2007	MW-33	NA	320	NA	NA	NA	NA
	9/10/2007	MW-33	NA	70 I	4 U	10,700	NA	NA
	3/18/2008	MW-33	320,000	83	1.4 J	15,000	170 J	610,000
	3/31/2008	MW-33-033108-1045	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1127	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1300	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1414	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1516	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1626	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-1704	NA	NA	NA	NA	NA	NA
	3/31/2008	MW-33-033108-913	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-1016	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-1116	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-1236	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-715	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-821	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-040108-916	NA	NA	NA	NA	NA	NA
	4/1/2008	MW-33-0401108-1356	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-33	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-33	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-33	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-33	NA	47 I	0.99 IV	10,000	160	NA
	4/23/2008	MW-33	230,000	NA	NA	9,900	140	560,000
	4/28/2008	MW-33	NA	NA	NA	NA	NA	NA
	5/7/2008	MW-33	260,000	20 I	1.3 IV	13,000 V	170	650,000
	5/13/2008	MW-33	250,000	NA	NA	12,000	150	660,000
	6/5/2008	MW-33	240,000	19 I	0.61 I	11,000	160	630,000
	6/10/2008	MW-33	NA	70 U	4.8 UJ	14,000	NA	NA
	7/9/2008	MW-33	220,000	79 I	4 U	8,900	140	540,000
	9/16/2008	MW-33	220,000	50 U	4 U	9,900	150	570,000
	10/29/2008	MW-33	260,000	50 U	5.9 I	12,000	160	620,000
	1/26/2009	MW-33	230,000	50 U	4 U	11,000	140	590,000
	3/23/2009	MW-33 (BW)	NA	NA	NA	14,000	160	NA
	3/23/2009	MW-33 (IRAP)	NA	NA	NA	NA	NA	NA
	3/23/2009	MW-33 (UIC)	260,000	50 U	4 U	17,000	170	650,000
	5/29/2009	MW-33	NA	NA	NA	NA	NA	NA
	7/8/2009	MW-33	290,000	250	4.3 I	20,000	170	670,000
9/14/2009	MW-33	270,000	50 U	5 I	18,000	160	590,000	
12/15/2009	MW-33	280,000 J	74 I	4 U	25,000 J	160	600,000	
3/17/2010	MW-33	250,000	50 U	4 U	27,000	160	630,000	
6/4/2010	MW-33	260,000	64 I	5.6 I	31,000	170	590,000	
9/8/2010	MW-33	230,000	50 I	4 U	26,000	150	560,000	
12/13/2010	MW-33	220,000	82 I	5.3 I	25,000	130	510,000	
3/11/2011	MW-33	190,000	50 U	4 U	24,000	120	430,000	
6/7/2011	MW-33	150,000	50 U	4.3 I	19,000	110	430,000	
12/12/2011	MW-33	200,000	50 U	4 U	20,000	110	390,000	
6/19/2012	MW-33	140,000	110 I	4 U	11,000	NA	320,000	
1/16/2013	MW-33	140,000	50 U	4 U	13,000	NA	320,000	
6/12/2013	MW-33	73,000	50 U	4 U	7,500	NA	240,000	
12/18/2013	MW-33	110,000	50 U	4.0 U	9,700	NA	250,000	
6/18/2014	MW-33	100,000	50 U	4.0 U	7,100	NA	270,000	
8/27/2014	MW-33	120,000	50 U	4.0 U	8,000	NA	320,000	

Table 15  
Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring

Remedial Action Status Report  
October 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Location ID:	Date Collected	GCTL Units Sample Name	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36	4/25/2007	MW-36	NA	770	20	NA	NA	NA
	7/10/2007	MW-36	NA	500	NA	NA	NA	NA
	9/10/2007	MW-36	NA	550	16	5,750	NA	NA
	3/14/2008	MW-36	150,000 [150,000]	470 [450]	20 J [21 J]	8,800 [8,700]	11 J [11 J]	230,000 [220,000]
	4/23/2008	MW-36	150,000	NA	NA	7,900 V	12	250,000
	5/8/2008	MW-36	170,000	370	16 V	7,400	11	270,000
	5/13/2008	MW-36	140,000	NA	NA	8,100	10	280,000
	6/5/2008	MW-36	160,000	300	17	7,300	12	290,000
	6/10/2008	MW-36	NA	350	14	6,900	NA	NA
	7/10/2008	MW-36	170,000 [180,000]	400 [390]	16 [16]	7,400 [7,400]	13 [14]	320,000 [310,000]
	9/16/2008	MW-36	170,000	280	21	6,900	12	290,000
	10/29/2008	MW-36	190,000 [180,000]	390 [380]	23 [23]	9,000 [8,900]	15 [15]	350,000 [340,000]
	1/26/2009	MW-36	180,000	520	22	9,400	15	330,000
	3/19/2009	MW-36 (BW)	170,000	330	20 V	9,000	15	360,000
	3/19/2009	MW-36 (IRAP)	NA	NA	NA	NA	NA	NA
	3/19/2009	MW-36 (UIC)	180,000	NA	NA	NA	NA	NA
	5/29/2009	MW-36	NA	NA	NA	NA	NA	NA
	7/10/2009	MW-36	230,000	450	18	13,000	17	420,000
	9/14/2009	MW-36	280,000	510	18	16,000	20	560,000
	12/15/2009	MW-36	380,000	590	18	20,000	24	650,000
	3/17/2010	MW-36	400,000	690	18	22,000	26	790,000
	6/10/2010	MW-36	450,000	1,000	18	25,000	30	860,000
	9/8/2010	MW-36	390,000	610	19	23,000	33	870,000
	12/16/2010	MW-36	570,000	650	21	25,000	32	860,000
	3/8/2011	MW-36	480,000	600	13	21,000	28	880,000
	6/8/2011	MW-36	440,000	610	14	23,000	27	900,000
	12/15/2011	MW-36	540,000	590	15	25,000	27	850,000
	6/20/2012	MW-36	540,000	540	7.3 I	19,000	NA	830,000
	1/16/2013	MW-36	550,000	1,100	15	26,000	NA	810,000
	6/11/2013	MW-36	380,000	340	8.8 I	10,000	NA	570,000
12/18/2013	MW-36	290,000	1,500	18	13,000	NA	390,000	
6/18/2014	MW-36	230,000	300	7.6 I	5,400	NA	380,000	
8/28/2014	MW-36	240,000	320	9.2 I	6,300	NA	400,000	
MW-37	4/25/2007	MW-37	NA	41.9 I	0.98 U	NA	NA	NA
	7/10/2007	MW-37	NA	50 U	NA	NA	NA	NA
	9/10/2007	MW-37	NA	50 U	4 U	1,670	NA	NA
	3/14/2008	MW-37	230,000	22 I	0.61 J	2,000	91 J	630,000
	4/1/2008	MW-37-040108-1428	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-37	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-37	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-37	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-37	NA	50	1 IV	3,700	160	NA
	4/23/2008	MW-37	230,000	NA	NA	2,700 V	100	640,000
	4/28/2008	MW-37	NA	NA	NA	NA	NA	NA
	5/8/2008	MW-37	240,000	19 I	0.98 IV	2,900	110	690,000
	5/13/2008	MW-37	240,000	NA	NA	3,200	120	690,000
	6/5/2008	MW-37	310,000	17 I	0.41 I	4,300	170	760,000
	6/10/2008	MW-37	NA	70 U	4.8 UJ	3,900	NA	NA
	7/9/2008	MW-37	260,000	200 I	4 U	4,900	150	690,000
	9/16/2008	MW-37	300,000	50 U	4 U	5,000	180	770,000
	10/29/2008	MW-37	230,000 [270,000]	50 U [50 U]	4 U [4 U]	4,200 [4,200]	140 [140]	720,000 [710,000]
	1/26/2009	MW-37	280,000	50 U	4 U	4,200	150	720,000
	3/19/2009	MW-37 (BW)	260,000	15 U	4 V	4,900	86	700,000
	3/19/2009	MW-37 (IRAP)	NA	NA	NA	NA	NA	NA
	3/19/2009	MW-37 (UIC)	260,000	NA	NA	NA	NA	NA
	5/19/2009	MW-37	NA	NA	NA	NA	NA	NA
	7/14/2009	MW-37	180,000	50 U	4 U	2,500	90	600,000
	9/14/2009	MW-37	200,000	50 U	4 U	2,500	89	640,000
	12/14/2009	MW-37	190,000 J [220,000]	50 U [50 U]	4 U [4 U]	1,300 [1,300]	46 [44]	620,000 [620,000]
	3/17/2010	MW-37	200,000 [180,000]	50 U [50 U]	4 U [4 U]	2,900 [3,000]	110 [110]	620,000 [600,000]
	6/4/2010	MW-37	130,000	67 I	4 U	4,100	88	520,000
	9/2/2010	MW-37	130,000	50 U	4 U	5,400	170	460,000
	12/16/2010	MW-37	98,000	50 U	4 U	2,500	88	470,000
3/10/2011	MW-37	120,000	50 U	4 U	3,800	140	410,000	
6/8/2011	MW-37	100,000	50 U	4 U	3,300	72	520,000	
12/13/2011	MW-37	240,000	50 U	4 U	3,700	120	690,000	
6/20/2012	MW-37	260,000	67 I	4 U	4,000	150	690,000	
1/16/2013	MW-37	190,000	210	4 U	2,200	96	550,000	
6/12/2013	MW-37	120,000	270	4 U	810	72	370,000	
12/18/2013	MW-37	150,000	200	4.0 U	8,200	160	420,000	
6/18/2014	MW-37	96,000 [95,000]	50 U [50 U]	4.0 U [4.0 U]	3,400 [3,300]	100 [99]	450,000 [460,000]	
8/27/2014	MW-37	86,000	50 U	4.0 U	3,800	100	420,000	
8/25/2015	MW-37	NA	NA	NA	6,700	97	NA	
MW-38	4/24/2007	MW-38	NA	604	3.18 I	NA	NA	NA
	7/10/2007	MW-38	NA	440 [440]	NA	NA	NA	NA
	9/10/2007	MW-38	NA	2,230	4.1 I	38,400	NA	NA
	3/14/2008	MW-38	260,000	440	2.4 J	29,000	15 J	430,000
	4/23/2008	MW-38	270,000	NA	NA	30,000 V	14	430,000
	5/8/2008	MW-38	280,000	430	2.8 V	28,000 V	14	410,000
	5/13/2008	MW-38	260,000	NA	NA	28,000	13	370,000
	6/4/2008	MW-38	250,000	370	1.9 I	26,000	13	460,000
	6/10/2008	MW-38	NA	440	4.8 UJ	27,000	NA	NA
	7/10/2008	MW-38	260,000	480	4 U	26,000	12	410,000
	9/16/2008	MW-38	230,000	560	4 U	26,000	14	380,000
	10/29/2008	MW-38	200,000	390	4 U	20,000	10	340,000
	1/26/2009	MW-38	180,000	320	4 U	18,000	9	310,000
	3/30/2009	MW-38 (BW)	NA	NA	NA	20,000	11	NA
	3/30/2009	MW-38 (UIC)	160,000	350	4.7 I	19,000	10	310,000
	7/10/2009	MW-38	170,000	360	4 U	16,000	7	300,000
	9/16/2009	MW-38	180,000	350	4 U	18,000	8	330,000
	12/17/2009	MW-38	160,000	340	4 U	17,000	8	270,000
	3/17/2010	MW-38	160,000	320	4 U	17,000	8	270,000
	6/9/2010	MW-38	130,000	370	4 U	15,000	7	230,000
	9/8/2010	MW-38	110,000	310	4 U	15,000	6	200,000
	12/13/2010	MW-38	100,000	250	4 U	12,000	6	170,000
	3/11/2011	MW-38	85,000	260	4 U	9,600	5	110,000
	6/7/2011	MW-38	61,000	230	4 U	7,400	4	120,000
	12/14/2011	MW-38	64,000 [63,000]	330 [380]	4 U [4 U]	7,500 [7,500]	4.3 [5.7]	110,000 [110,000]
	6/28/2012	MW-38	65,000	190 I	4 U	6,700	NA	90,000
	1/17/2013	MW-38	57,000	210	4 U	5,800	NA	96,000
	6/12/2013	MW-38	41,000	200	4 U	4,900	NA	62,000
	12/17/2013	MW-38	95,000	400	6.0 I	15,000	NA	140,000
	6/18/2014	MW-38	120,000	460	4.0 U	17,000	NA	210,000
8/27/2014	MW-38	130,000	310	4.0 U	14,000	NA	180,000	
8/25/2015	MW-38	NA	390	NA	NA	NA	NA	

**Table 15**  
**Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Sample Name						
MW-39	4/24/2007	MW-39	NA	87.5 I	0.98 U	NA	NA	NA
	7/10/2007	MW-39	NA	160 I	NA	NA	NA	NA
	9/10/2007	MW-39	NA	210	4 U	330	NA	NA
	3/14/2008	MW-39	250,000 [250,000]	25 I [16 I]	0.46 J [0.42 J]	4,500 [4,500]	140 J [130 J]	700,000 [680,000]
	4/1/2008	MW-39-040108-1435	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-39	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-39	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-39	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-39	NA	120	1.2 IV	7,700	210	NA
	4/23/2008	MW-39	320,000	NA	NA	6,200 V	170	860,000
	4/28/2008	MW-39	NA	NA	NA	NA	NA	NA
	5/8/2008	MW-39	320,000	26 I	1.1 IV	6,100 V	170	900,000
	5/13/2008	MW-39	310,000	NA	NA	6,000	160	880,000
	6/4/2008	MW-39	370,000	27 I	0.33 I	6,900	190	970,000
	6/10/2008	MW-39	NA	470	4.8 UJ	7,800	NA	NA
	7/9/2008	MW-39	360,000	130 I	4 U	7,800	190	890,000
	9/16/2008	MW-39	310,000	90 I	4 U	6,600	150	800,000
	10/29/2008	MW-39	370,000	260	4 U	7,800	130	890,000
	1/26/2009	MW-39	330,000	75 I	4 U	6,600	150	870,000
	3/30/2009	MW-39 (BW)	NA	NA	NA	3,200	110	NA
	3/30/2009	MW-39 (UIC)	300,000	92 I	4 U	2,800	110	830,000
	7/10/2009	MW-39	370,000	50 I	4 U	9,000	170	980,000
	9/16/2009	MW-39	260,000	250	4 U	37,000	290	740,000
	12/17/2009	MW-39	280,000	220	4 U	41,000	410	780,000
	3/17/2010	MW-39	200,000	50 U	4 U	2,500	49	610,000
	6/9/2010	MW-39	190,000 [180,000]	75 I [81 I]	4 U [4 U]	6,500 [6,700]	190 [190]	460,000 [480,000]
	9/8/2010	MW-39	56,000	90 I	4 U	1,300	19	850,000
	12/13/2010	MW-39	74,000	67 I	4 U	1,200	17	910,000
	3/11/2011	MW-39	67,000	100 I	4 U	1,700	27	860,000
	6/7/2011	MW-39	65,000	140 I	4 U	1,500	22	950,000
	12/14/2011	MW-39	100,000	110 I	4 U	1,300	19	800,000
	6/28/2012	MW-39	80,000	140 I	4 U	890	NA	770,000
	1/17/2013	MW-39	40,000	290	4 U	4,000	NA	620,000
6/12/2013	MW-39	65,000	120 I	4 U	350	NA	880,000	
12/17/2013	MW-39	120,000	230	4.0 U	1,800	NA	580,000	
6/19/2014	MW-39	120,000	330	4.0 U	6,800	NA	640,000	
8/27/2014	MW-39	100,000	260	4.0 U	3,500	NA	720,000	
8/25/2015	MW-39	NA	230	NA	980	NA	990,000	
MW-40	9/11/2007	MW-40	NA	260	4 U	31,900	NA	NA
	3/14/2008	MW-40	230,000	330	5.7 J	40,000	16 J	420,000
	4/23/2008	MW-40	230,000	NA	NA	36,000 V	15	400,000
	5/7/2008	MW-40	250,000	240	5 V	35,000 V	15	420,000
	6/4/2008	MW-40	290,000	240	5	39,000	17	410,000
	6/10/2008	MW-40	NA	290	4.8 UJ	37,000	NA	NA
	7/10/2008	MW-40	260,000	310	6.3 I	37,000	15	430,000
	9/16/2008	MW-40	240,000	270	5.1 I	33,000	14	390,000
	10/29/2008	MW-40	130,000	280	6.7 I	31,000	14	370,000
	1/26/2009	MW-40	200,000	220	4.4 I	27,000	12	370,000
	3/19/2009	MW-40 (BW)	180,000	210	4.6 V	27,000	12	350,000
	3/19/2009	MW-40 (IRAP)	NA	NA	NA	NA	NA	NA
	3/19/2009	MW-40 (UIC)	190,000	NA	NA	NA	NA	NA
	5/19/2009	MW-40	NA	NA	NA	NA	NA	NA
	7/9/2009	MW-40	210,000	200 I	4 U	26,000	10	400,000
	9/14/2009	MW-40	220,000	270	4.1 I	34,000	14	410,000
	12/14/2009	MW-40	240,000	270	6 I	34,000	13	380,000
	3/18/2010	MW-40	200,000	430	4.7 I	32,000	11	380,000
	6/9/2010	MW-40	170,000	280	4 U	27,000	9	300,000
	9/2/2010	MW-40	190,000	320	4 U	33,000	11	360,000
	12/14/2010	MW-40	270,000	230	6.7 I	31,000	11	360,000
	3/11/2011	MW-40	240,000	380	4 U	28,000	11	260,000
	6/7/2011	MW-40	150,000	440	4 U	26,000	11	260,000
12/15/2011	MW-40	160,000	190 I	4 I	26,000	11	220,000	
6/20/2012	MW-40	130,000 J	190 I	4 U	20,000	NA	190,000	
1/17/2013	MW-40	66,000	160 I	4 U	6,800	NA	120,000	
6/13/2013	MW-40	65,000 [65,000]	140 I [130 I]	4 U [4 U]	7,500 [7,400]	NA	110,000 [110,000]	
12/18/2013	MW-40	140,000	160 I	4.0 U	19,000	NA	210,000	
6/18/2014	MW-40	120,000 [120,000]	170 I [170 I]	4.0 U [4.0 U]	18,000 [18,000]	NA	220,000 [210,000]	
8/27/2014	MW-40	100,000	150 I	4.0 U	15,000	NA	190,000	
MW-42	6/23/2005	TT-MW-042-20050623	391,000	NA	NA	9,690	32	NA
	1/31/2006	MW-42	410,000	NA	NA	8,000	26	NA
	4/24/2007	MW-42	NA	264	18	NA	NA	NA
	7/11/2007	MW-42	NA	240	NA	NA	NA	NA
	9/10/2007	MW-42	NA	260 [360]	8.1 I [7.9 I]	7,570 [7,420]	NA	NA
	3/14/2008	MW-42	340,000	180	16 J	7,000	16 J	550,000
	4/23/2008	MW-42	360,000	NA	NA	6,800 V	17	570,000
	5/7/2008	MW-42	330,000	160	16 V	6,300 V	13	540,000
	5/13/2008	MW-42	320,000	NA	NA	6,400	14	610,000
	6/4/2008	MW-42	330,000	170	15	6,200	16	560,000
	6/10/2008	MW-42	NA	200	13 J	6,700	NA	NA
	7/10/2008	MW-42	330,000	260	15	6,200	15	520,000
	9/16/2008	MW-42	300,000	240	16	6,500	17	480,000
	10/29/2008	MW-42	330,000	210	17	6,300	16	540,000
	1/26/2009	MW-42	290,000	170 I	12	5,700	14	470,000
	3/18/2009	MW-42 (BW)	290,000	180	14	6,200	15	490,000
	3/18/2009	MW-42 (IRAP)	NA	NA	NA	NA	NA	NA
	3/18/2009	MW-42 (UIC)	290,000	NA	NA	NA	NA	480,000
	5/19/2009	MW-42	NA	NA	NA	NA	NA	NA
	7/10/2009	MW-42	300,000	250	17	6,200	15	520,000
	9/15/2009	MW-42	300,000	190 I	17	5,700	13	500,000
	12/14/2009	MW-42	320,000	200	19	6,400	14	460,000
	3/18/2010	MW-42	270,000 [270,000]	250 [200 I]	19 [17]	7,500 [6,500]	13 [13]	510,000 [490,000]
	6/8/2010	MW-42	280,000	230	14	6,200	11	480,000
	9/2/2010	MW-42	260,000	220	20	7,300	12	500,000
	12/14/2010	MW-42	260,000	190 I	18	5,800	12	460,000
	3/8/2011	MW-42	330,000	210	16	6,000	10	400,000
	6/9/2011	MW-42	190,000	260	18	5,800	9	370,000
	12/15/2011	MW-42	190,000	170 I	16	4,700	7	250,000
	6/20/2012	MW-42	90,000 J	730	15	4,500	NA	160,000
1/15/2013	MW-42	78,000	120 I	11	2,200	NA	130,000	
6/12/2013	MW-42	110,000	300	22	5,200	NA	170,000	
12/17/2013	MW-42	70,000	160 I	15	3,100	NA	130,000	
6/17/2014	MW-42	280,000	220	4.1 I	7,900	NA	440,000	
8/27/2014	MW-42	310,000 [280,000]	290 [290]	7.8 I [8.3 I]	11,000 J3 [11,000]	NA	750,000 [730,000]	
8/25/2015	MW-42	NA	160 I	NA	2,700	NA	270,000	
8/25/2015	MW-42 Dup	NA	160 I	NA	NA	NA	NA	

**Table 15**  
**Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Sample Name						
MW-43	4/24/2007	MW-43	NA	31 U	0.98 U	NA	NA	NA
	7/11/2007	MW-43	NA	50 U	NA	NA	NA	NA
	9/10/2007	MW-43	NA	130 I	4 U	10,600	NA	NA
	3/14/2008	MW-43	240,000	26 I	0.38 J	10,000	120 J	660,000
	4/1/2008	MW-43-040108-1440	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-43	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-43	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-43	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-43	NA	1,000	1.2 IV	13,000	170	NA
	4/23/2008	MW-43	280,000	NA	NA	13,000 V	140	720,000
	4/28/2008	MW-43	NA	NA	NA	NA	NA	NA
	5/8/2008	MW-43	250,000	17 I	0.61 IV	7,100	110	650,000
	5/13/2008	MW-43	250,000	NA	NA	12,000	130	730,000
	6/4/2008	MW-43	200,000	170	0.39 I	8,400	99	660,000
	6/10/2008	MW-43	NA	1,300	4.8 UJ	17,000	NA	NA
	7/9/2008	MW-43	240,000	190 I	4 U	12,000	140	720,000
	9/16/2008	MW-43	200,000	120 I	4 U	7,800	97	590,000
	10/30/2008	MW-43	210,000 J	100 I	4 U	7,300	90	620,000
	1/26/2009	MW-43	190,000	50 U	4 U	5,200	71	630,000
	3/23/2009	MW-43 (BW)	NA	NA	NA	8,900	120	NA
	3/23/2009	MW-43 (IRAP)	NA	NA	NA	NA	NA	NA
	3/23/2009	MW-43 (UIC)	220,000	90 I	4 U	7,800	100	720,000
	5/19/2009	MW-43	NA	NA	NA	NA	NA	NA
	7/10/2009	MW-43	310,000	57 I	4 U	10,000	150	860,000
	9/15/2009	MW-43	310,000	50 U	4 U	10,000	170	860,000
	12/14/2009	MW-43	330,000	50 U	4 U	8,000	140	770,000
	3/18/2010	MW-43	310,000	69 I	4 U	9,400	170	830,000
	6/4/2010	MW-43	250,000	70 I	4 U	7,000	120	720,000
	9/2/2010	MW-43	270,000	90 I	4 U	9,400	170	850,000
	12/14/2010	MW-43	230,000	66 I	4 U	7,200	130	710,000
	3/8/2011	MW-43	220,000	130 I	4 U	4,600	87	610,000
	6/8/2011	MW-43	200,000	50 U	4 U	6,600	120	730,000
	12/15/2011	MW-43	260,000	110 I	4 U	9,200	150	690,000
	6/20/2012	MW-43	130,000	50 U	4 U	7,400	NA	480,000
	1/15/2013	MW-43	210,000	50 U	4 U	2,100	NA	550,000
	6/12/2013	MW-43	210,000	50 U	4 U	8,400	NA	540,000
	12/17/2013	MW-43	170,000	50 U	4.0 U	10,000	NA	450,000
	6/18/2014	MW-43	170,000	91 I	4.0 U	7,100	NA	530,000
	8/27/2014	MW-43	140,000	54 I	4.0 U	5,000	NA	510,000
8/25/2015	MW-43	NA	NA	NA	NA	62	NA	
MW-70	6/23/2005	TT-MW-070-20050623	408,000	NA	NA	64,300	75	NA
	2/2/2006	MW-70	430,000	NA	NA	62,000	65	NA
	4/24/2007	MW-70	NA	1,120	2.6 I	NA	NA	NA
	7/11/2007	MW-70	NA	920	NA	NA	NA	NA
	9/11/2007	MW-70	NA	230	4 U	8,000	NA	NA
	3/13/2008	MW-70	350,000	620	3	36,000	27	580,000
	5/6/2008	MW-70	570,000	410	3.7 V	37,000 V	27	560,000
	5/13/2008	MW-70	380,000	NA	NA	32,000	25	610,000
	6/4/2008	MW-70	420,000	340	4	30,000	24	580,000
	6/11/2008	MW-70	NA	2,000	4.8 UJ	38,000	NA	NA
	7/10/2008	MW-70	400,000	460	4 U	27,000	22	550,000
	9/18/2008	MW-70	360,000	210	4.1 I	28,000	24	660,000
	10/30/2008	MW-70	360,000	280	8.8 I	35,000	73	670,000
	1/27/2009	MW-70	320,000	120 I	4 U	1,600	10	340,000
	3/26/2009	MW-70 (UIC)	350,000 [360,000]	280 [270]	4.5 I [4 U]	34,000 [35,000]	26 [27]	650,000 [660,000]
	7/14/2009	MW-70	370,000	260	6.1 I	24,000	21	670,000
	9/15/2009	MW-70	360,000 [360,000]	350 [350]	4 U [4 U]	29,000 J [30,000]	24 [25]	720,000 [700,000]
	12/9/2009	MW-70	390,000	350	6.3 I	31,000	24	640,000
	3/15/2010	MW-70	500,000	300	5.7 I	30,000 J	22	550,000
	6/7/2010	MW-70	310,000	440	4.5 I	24,000	20	550,000
	9/14/2010	MW-70	320,000	210	4 U	21,000 J	18	590,000
	12/15/2010	MW-70	320,000 [320,000]	300 [320]	7.6 I [9.3 I]	29,000 [28,000]	20 [19]	500,000 [510,000]
	3/7/2011	MW-70	260,000	310	5.7 I	24,000	17	470,000
	6/8/2011	MW-70	230,000	280	5.6 I	25,000	20	450,000
	12/7/2011	MW-70	270,000	490	5.3 I	18,000	15	360,000
	6/26/2012	MW-70	280,000	240	6.4 I	28,000	NA	480,000
	1/17/2013	MW-70	250,000	310	4.8 I	25,000 J	NA	430,000
	6/13/2013	MW-70	350,000 [340,000]	390 [340]	5.3 I [6.2 I]	27,000 [29,000]	NA	580,000 [530,000]
	12/18/2013	MW-70	230,000	230	4.0 U	12,000	NA	330,000
	6/19/2014	MW-70	240,000	330	4.0 U	12,000	NA	480,000
8/27/2014	MW-70	210,000	180 I	5.8 I	8,900	NA	380,000	
MW-71	4/25/2007	MW-71	NA	230	0.98 U	NA	NA	NA
	7/11/2007	MW-71	NA	270	NA	NA	NA	NA
	9/12/2007	MW-71	NA	290	4 U	900	NA	NA
	3/13/2008	MW-71	120,000	1,300	1.6 I	2,300	6	230,000
	5/6/2008	MW-71	120,000	380	1.8 IV	1,200 V	7	200,000
	5/13/2008	MW-71	100,000	NA	NA	1,200	4.8 I	240,000
	6/4/2008	MW-71	120,000	550	1.5 I	1,400	7	260,000
	6/11/2008	MW-71	NA	2,100	14	2,700	NA	NA
	7/10/2008	MW-71	100,000	320	4 U	910	5	180,000
	9/17/2008	MW-71	96,000	560	4 U	1,300	7	170,000
	10/30/2008	MW-71	84,000 I	540	4 U	1,100	7	170,000
	1/27/2009	MW-71	60,000	840	4 U	1,100	6	160,000
	3/23/2009	MW-71 (BW)	NA	NA	NA	980	6	NA
	3/23/2009	MW-71 (IRAP)	76,000	NA	NA	NA	NA	NA
	3/23/2009	MW-71 (UIC)	NA	140 I	4 U	1,100	6	200,000
	5/28/2009	MW-71	NA	NA	NA	NA	NA	NA
	7/14/2009	MW-71	87,000	210	4 U	760	3.9 I	170,000
	9/11/2009	MW-71	75,000	180 I	4 U	720	4	170,000
	12/9/2009	MW-71	82,000	180 I	4 U	760	5	170,000
	3/15/2010	MW-71	65,000	220	4 U	640	4	140,000
	6/7/2010	MW-71	56,000	230	4 U	630	3.6 I	130,000
	9/8/2010	MW-71	42,000	200	4 U	460	3.3 I	110,000
	12/9/2010	MW-71	42,000 J	180 I	4 U	460	3.7 I	94,000
	3/7/2011	MW-71	32,000	190 I	4 U	280	2.6 I	78,000
	6/6/2011	MW-71	24,000	180 I	4 U	340	2.4 I	78,000
	12/7/2011	MW-71	26,000	160 I	4 U	300	2.4 I	90,000
	6/18/2012	MW-71	20,000	150 I	4 U	360	NA	150,000
	1/17/2013	MW-71	17,000	180 I	4 U	630	NA	98,000
	6/12/2013	MW-71	61,000	100 I	4 U	740	NA	130,000
	12/18/2013	MW-71	31,000	210	4.0 U	420	NA	92,000
6/17/2014	MW-71	40,000	230	4.0 U	610	NA	150,000	
8/27/2014	MW-71	45,000	270	4.0 U	630	NA	200,000	



Table 15  
Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring

Remedial Action Status Report  
October 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			Units	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Name								
MW-72	4/24/2007	MW-72	NA	3,740	3.9 I	NA	NA	NA
	7/11/2007	MW-72	NA	610	NA	NA	NA	NA
	9/10/2007	MW-72	NA	1,140	4 U	9,700	NA	NA
	3/13/2008	MW-72	460,000	810	5	9,100	14	820,000
	4/23/2008	MW-72	480,000	NA	NA	8,600 V	14	800,000
	5/8/2008	MW-72	480,000	680	5.8 V	8,500	14	790,000
	5/13/2008	MW-72	460,000	NA	NA	9,100	14	830,000
	6/5/2008	MW-72	480,000	410	5	8,500	14	860,000
	6/11/2008	MW-72	NA	480	4.8 UJ	10,000	NA	NA
	7/10/2008	MW-72	480,000	570	4 U	9,600	17	850,000
	9/19/2008	MW-72	500,000	540	6.9 I	11,000	16	870,000
	10/30/2008	MW-72	480,000 J	760	7.8 I	10,000	16	840,000
	1/27/2009	MW-72	480,000	610	5.8 I	10,000	16	840,000
	3/23/2009	MW-72 (BW)	NA	NA	NA	11,000	15	NA
	3/23/2009	MW-72 (IRAP)	NA	NA	NA	NA	NA	NA
	3/23/2009	MW-72 (UIC)	460,000	640	4 U	11,000 J	16	880,000
	5/28/2009	MW-72	NA	NA	NA	NA	NA	NA
	7/13/2009	MW-72	510,000 [510,000]	560 [530]	7.2 I [4.7 I]	11,000 [11,000]	16 [15]	940,000 [950,000]
	9/11/2009	MW-72	550,000	810	7.6 I	10,000	15	950,000
	12/16/2009	MW-72	510,000	960	4 U	11,000	15	890,000
	3/16/2010	MW-72	520,000	1,300	4 U	9,400	14	910,000
	6/4/2010	MW-72	480,000	2,700	6.3 I	10,000	18	930,000
	9/8/2010	MW-72	460,000	470	4 U	9,400	17	970,000
	12/13/2010	MW-72	480,000	5,800	4 U	7,100	12	970,000
	3/8/2011	MW-72	480,000	1,300	4 U	9,100	15	950,000
	6/8/2011	MW-72	450,000 [450,000]	1,300 [920]	4 U [4 I]	9,200 [8,900]	14 [13]	950,000 [970,000]
	12/14/2011	MW-72	540,000	1,600	6.8 I	11,000	16	880,000
	6/19/2012	MW-72	540,000	700	4 U	9,700	NA	1,000,000
	1/15/2013	MW-72	570,000	670	6.7 I	15,000	NA	800,000
	6/12/2013	MW-72	550,000	830	6.6 I	14,000	NA	760,000
12/17/2013	MW-72	500,000	5,000	4.0 U	11,000	NA	770,000	
6/18/2014	MW-72	490,000	1,100	4.0 U	7,300	NA	850,000	
8/26/2014	MW-72	430,000	600	4.0 U	5,500	NA	730,000	
8/24/2015	MW-72	160,000	3,500	NA	NA	NA	390,000	
MW-76	4/24/2007	MW-76	NA	275	3.1 I	NA	NA	NA
	7/10/2007	MW-76	NA	350	NA	NA	NA	NA
	9/11/2007	MW-76	NA	170 I	4 U	7,130	NA	NA
	3/13/2008	MW-76	84,000	6,000	5	11,000	11	130,000
	5/6/2008	MW-76	81,000	1,200	4.6 V	11,000 V	8	150,000
	5/13/2008	MW-76	50,000	NA	NA	7,000	5	130,000
	6/4/2008	MW-76	70,000 J	1,200	4	8,900	8	150,000
	6/11/2008	MW-76	NA	200 I	4.8 U	5,200	NA	NA
	6/18/2008	MW-76	NA	240	4.8 U	5,400	5.5 I	NA
	7/10/2008	MW-76	60,000 [61,000]	320 [320]	4 U [4.8 I]	7,800 [7,900]	6.3 [6.5]	110,000 [130,000]
	9/17/2008	MW-76	65,000	1,100	4 U	7,700	7	110,000
	10/30/2008	MW-76	64,000 I	190 I	5.3 I	7,900	7	120,000
	1/27/2009	MW-76	64,000	420	4.7 I	5,200	8	130,000
	3/25/2009	MW-76 (IRAP)	NA	NA	NA	NA	NA	NA
	3/25/2009	MW-76 (UIC)	NA	340	4 U	7,500	7	NA
	3/26/2009	MW-76 (UIC)	63,000	NA	NA	NA	NA	140,000
	7/14/2009	MW-76	76,000	230	4.4 I	8,600	7	170,000
	9/15/2009	MW-76	83,000	200 I	4 U	9,600	8	180,000
	12/9/2009	MW-76	98,000	190 I	4 U	12,000	10	180,000
	3/16/2010	MW-76	120,000	290	4 U	10,000	11	150,000
	6/7/2010	MW-76	120,000	260	4 U	17,000	13	180,000
	9/10/2010	MW-76	130,000	220	5.5 I	22,000	16	270,000
	12/15/2010	MW-76	200,000 J	240	4 U	21,000 J	17	220,000
	3/7/2011	MW-76	97,000	290	4 U	14,000	13	180,000
	6/7/2011	MW-76	130,000	260	5.5 I	22,000	20	270,000
	12/7/2011	MW-76	180,000	270	4.3 I	30,000 J	25	290,000
	6/20/2012	MW-76	250,000 J	290	4 U	42,000 J	NA	420,000
	1/17/2013	MW-76	450,000	430	6.5 I	75,000	NA	660,000
	6/12/2013	MW-76	520,000	410	4.3 I	69,000	NA	800,000
	12/18/2013	MW-76	450,000	460	5.9 I	75,000 J3	NA	670,000
6/17/2014	MW-76	260,000	330	4.0 U	36,000	NA	350,000	
8/27/2014	MW-76	270,000	310	4.1 I	35,000	NA	460,000	
8/24/2015	MW-76	180,000	NA	NA	24,000	NA	NA	

**Table 15**  
**Summary of Groundwater Sample Analytical Results Persulfate Pilot Study Monitoring**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

Location ID:	Date Collected	GCTL	Sulfate	Aluminum	Arsenic	Iron	Manganese	Total Dissolved Solids
			250,000	200	10	300	50	500,000
			Units	ug/L	ug/L	ug/L	ug/L	ug/L
Sample Name								
MW-80	4/24/2007	MW-80	NA	80.1 I	0.98 U	NA	NA	NA
	7/11/2007	MW-80	NA	50 U	NA	NA	NA	NA
	9/10/2007	MW-80	NA	50 U	4 U	450	NA	NA
	3/18/2008	MW-80	290,000	15 U	0.55 J	370	49 J	740,000
	4/1/2008	MW-80-040108-1454	NA	NA	NA	NA	NA	NA
	4/7/2008	MW-80	NA	NA	NA	NA	NA	NA
	4/11/2008	MW-80	NA	NA	NA	NA	NA	NA
	4/14/2008	MW-80	NA	NA	NA	NA	NA	NA
	4/22/2008	MW-80	NA	66	1.3 IV	610	71	NA
	4/23/2008	MW-80	290,000	NA	NA	430 V	51	750,000
	4/28/2008	MW-80	NA	NA	NA	NA	NA	NA
	5/8/2008	MW-80	300,000	25 I	1 IV	480	60	750,000
	5/13/2008	MW-80	280,000	NA	NA	450	54	770,000
	6/5/2008	MW-80	290,000	15 U	0.62 I	500	58	790,000
	6/11/2008	MW-80	NA	70 U	4.8 UJ	1,800	NA	NA
	7/10/2008	MW-80	300,000	50 U	4 U	550	63	790,000
	9/18/2008	MW-80	300,000	50 U	4 U	580	58	800,000
	10/30/2008	MW-80	300,000 J	180 I	4 U	890	66	770,000
	1/27/2009	MW-80	260,000	50 U	4 U	520	52	760,000
	3/23/2009	MW-80 (BW)	NA	NA	NA	440	50	NA
	3/23/2009	MW-80 (IRAP)	NA	NA	NA	NA	NA	NA
	3/23/2009	MW-80 (UIC)	270,000 [280,000]	50 U [50 U]	4 U [4 U]	470 [430]	52 [49]	770,000 [770,000]
	5/28/2009	MW-80	NA	NA	NA	NA	NA	NA
	7/13/2009	MW-80	320,000 [320,000]	53 I [50 U]	4 U [4 U]	410 [410]	51 [51]	840,000 [850,000]
	9/14/2009	MW-80	330,000 [330,000]	50 U [51 I]	4 U [4 U]	530 [530]	56 [56]	850,000 [850,000]
	12/16/2009	MW-80	370,000	50 U	4 U	470	53	810,000
	3/18/2010	MW-80	330,000	85 I	4 U	570	53	860,000
	6/4/2010	MW-80	320,000	50 U	4 U	560	57	840,000
	9/8/2010	MW-80	250,000	81 I	4 U	780	63	830,000
	12/13/2010	MW-80	310,000	50 U	4 U	560	54	860,000
	3/8/2011	MW-80	310,000 J	120 I	4 U	580	54	860,000
	6/8/2011	MW-80	310,000	98 I	4 U	580	54	890,000
12/14/2011	MW-80	320,000	50 U	4 U	640	55	740,000	
6/19/2012	MW-80	290,000	50 U	4 U	590	52	670,000	
1/15/2013	MW-80	300,000	50 U	4 U	460	47	630,000	
6/12/2013	MW-80	280,000	50 U	4 U	660	47	670,000	
12/17/2013	MW-80	350,000	52 I	4.0 U	580	58	850,000	
6/18/2014	MW-80	410,000	50 U	4.0 U	590	59	990,000	
8/26/2014	MW-80	400,000 [400,000]	160 I [110 I]	4.0 U [4.0 U]	670 [600]	60 [61]	930,000 [890,000]	
8/24/2015	MW-80	390,000	NA	NA	580	64	1,100,000	
8/24/2015	MW-80 Dup	400,000	NA	NA	560	66	1,000,000	

**Footnotes:**

In-Situ Chemical Oxidation injections were implemented in April 2008.  
GCTL - Groundwater Cleanup Target Level  
ug/L - micrograms per liter  
I - Detected but below reporting limit. Result is an estimated concentration.  
J or J3 - Estimated value  
L - Estimated value, biased low  
Q - Sample held beyond accepted holding time.  
U - The analyte was analyzed for, but not detected.  
UJ - The analyte was analyzed for, but not detected. The reporting limit is an estimated value.  
V - Indicates the analyte was detected in both the sample and the associated method blank.  
[ ] - Duplicate sample result  
NA - Not analyzed  
**Bold Highlight - Analyte Exceeds GCTL**  
**Bold - Analyte was detected above the Method Detection Limit**  
**Baseline Sampling**

Table 16  
Private Well Groundwater Analytical Results

Remedial Action Status Report  
2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (8260B)																															
		1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,1-Dibromo-3-Chloropropane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropene 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Butanone 2-Chlorotoluene 2-Hexanone 4-Chlorotoluene 4-Isopropyl Toluene 4-Methyl-2-pentanone (MIBK) Acetone Benzene Bromobenzene Bromoform Bromomethane																															
		GCTL	1.3	200	0.2	.5	70	7	--	70	0.02	70	10	10	10	210	--	--	4,200	140	280	140	--	560	6,300	1	--	4.4	9.8				
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
PQL	2																																
Date Collected:																																	
1107 TALLEVAST RD	AF Gravels	04/02/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA
1201 TALLEVAST RD	AF Gravels	04/02/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA
		09/15/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA
		08/17/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA
		06/27/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA
1607 TALLEVAST RD	AF Gravels	03/19/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
2105 TALLEVAST RD	AF Gravels	04/15/09	NA	NA	NA	NA	4.8	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	17 U	NA	NA	NA	NA	NA	20 U	NA	NA	1.2 U	NA	
2400 TALLEVAST RD	AF Gravels	03/30/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		09/09/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/23/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		06/28/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/20/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U
08/17/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	
2411 TALLEVAST RD	AF Gravels	04/13/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	1.1 J	NA	
		09/09/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/25/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		07/10/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
08/20/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U		
08/17/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	
7500 26th CT E	Floridan	04/01/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		09/16/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/25/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		06/26/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/15/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U
08/17/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	
7561/7571 15TH ST E	AF Gravels	04/02/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		09/15/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/25/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		06/28/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/15/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U
08/17/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	
7716 17TH ST CT E Well #2	USAS	03/20/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	17 I	NA	NA	0.58 U	NA		
7720 17TH ST CT E	LSAS	03/20/09	NA	NA	NA	NA	74	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA		
7851 15th St E	Floridan	04/01/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		09/15/10	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		09/01/11	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		06/20/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA	
		08/20/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U
08/17/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U	2.5 U	
7921 15TH ST E #2	Floridan	06/21/12	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA		
		08/12/14	0.63 U	0.46 U	0.15 U	0.47 U	0.52 U	0.45 U	0.31 U	0.77 U	0.18 U	0.58 U	0.86 U	2.5 U	0.44 U	0.57 U	0.52 U	0.54 U	0.64 U	0.39 U	0.52 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	3.8 U	9.9 U	0.50 U	0.58 U	0.58 U	2.5 U
		08/18/15	0.63 U	0.47 U	0.17 U	0.47 U	0.52 U	0.45 U	0.67 U	0.65 U	0.77 U	0.44 U	0.58 U	0.86 U	2.5 U	0.49 U	0.57 U	0.52 U	0.54 U	0.64 U	0.42 U	0.60 U	0.36 U	0.84 U	0.65 U	4.4 U	0.52 U	0.69 U	4.0 U	9.9 U	0.50 U	0.58 U	0.63 U
8005 15th St E	AF Gravels	03/31/09	NA	NA	NA	NA	0.52 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.52 U	NA	8.4 U	NA	NA	NA	NA	NA	9.9 U	NA	NA	0.58 U	NA		
		09/15/10	NA	NA	NA</																												

Table 16  
Private Well Groundwater Analytical Results

Remedial Action Status Report  
2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida

Sample ID:	Zone:	Volatile Organics (8260B)																												Date Collected:	Detected Volatile Organics (8260) - SIM ID								
		Carbon Disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chlorobromomethane (Dibromochloromethane)	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethane	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane (aka Bromochloromethane)	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene Chloride	m-Xylene & p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	O-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene			Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride		
GCTL	Units	700	3	100	91	0.4	12	70	2.7	70	--	70	0.6	1,400	30	0.02	0.4	0.8	20	5	--	14	--	--	20	--	100	--	3	40	100	--	3	40	100	--	3	2,100	1
Units	PQL	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1107 TALLEVAST RD	AF Gravels	04/02/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
1201 TALLEVAST RD	AF Gravels	04/02/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		09/15/10	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	1 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/17/11	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.57 I	0.51 U	NA	NA	0.57 I	NA	NA	0.5 U	NA	0.5 U	1 U
		06/27/12	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
1607 TALLEVAST RD	AF Gravels	03/19/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	0.54 U
2105 TALLEVAST RD	AF Gravels	04/15/09	1.7 U	NA	NA	NA	0.68 U	NA	1.8 U	NA	1.3 U	NA	NA	0.7 U	NA	NA	NA	NA	0.88 U	8 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	21	NA	NA	1 U	NA	NA	1 U	95		
2400 TALLEVAST RD	AF Gravels	03/30/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		09/09/10	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	1 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/23/11	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		06/28/12	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/20/14	1.0 U	0.42 UJ3	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U		
		08/17/15	1.0 U	0.43 U	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U		
2411 TALLEVAST RD	AF Gravels	04/13/09	0.85 U	NA	NA	NA	6.6	NA	12	NA	0.65 U	NA	NA	12	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		09/09/10	5.5	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	1 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/25/11	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		07/10/12	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/20/14	1.0 U	0.42 UJ3	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U		
7500 26th CT E	Floridan	04/01/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		09/16/10	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	1 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/25/11	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		06/26/12	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/15/14	1.0 U	0.42 UJ3	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U		
		08/17/15	1.0 U	0.43 U	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U		
7561/7571 15TH ST E	AF Gravels	04/02/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		09/15/10	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	1 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/25/11	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1.0 U
		06/28/12	1 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	1 U
		08/15/14	1.0 U	0.42 UJ3	0.63 U	0.58 U	0.34 U	2.5 U	0.90 U	1.0 U	0.65 U	0.14 U	0.41 U	0.35 U	2.5 U	0.44 U	0.50 U	0.40 U	0.19 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.44 U	0.14 U	0.50 U	2.5 U	0.50 U	1.0 U		
		08/17/15	1.0 U	0.43 U	0.63 U	0.58 U	0.31 U	2.5 U	0.90 U	1.0 U	0.65 U	0.39 U	0.46 U	0.44 U	2.5 U	0.44 U	0.50 U	0.34 U	0.52 U	0.44 U	4.0 U	0.60 U	2.5 U	0.67 U	0.59 U	0.50 U	0.63 U	0.98 U	0.84 U	0.50 U	0.51 U	0.67 U	0.27 U	0.61 U	2.5 U	0.71 U	1.0 U		
7716 17TH ST CT E Well #2	USAS	03/20/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	0.65 U	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U	0.54 U
7720 17TH ST CT E	LSAS	03/20/09	0.85 U	NA	NA	NA	0.34 U	NA	0.9 U	NA	7.3	NA	NA	0.35 U	NA	NA	NA	NA	0.44 U	4 U	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.51 U	NA	NA	5.1	NA	1.3	260			
7851 15th St E	Floridan	04/01/09	0.85 U	NA	NA	NA																																	

**Table 17  
Contaminants of Concern Mass Removal Calculations**

**Remedial Action Status Report  
October, 2015  
Lockheed Martin Tallevast Site  
Tallevast, Florida**

Month	Contaminant Removal (in lbs)							Total
	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride	1,4-Dioxane	
*November 2013	0.6	2.0	1.0	0.9	1.7	0.2	3.3	9.7
December 2013	1.6	5.2	2.8	2.6	4.7	0.3	7.1	24.3
January 2014	1.9	4.9	2.1	4.3	3.7	0.2	8.3	25.4
February 2014	1.5	3.6	2.3	3.4	3.4	0.1	7.9	22.2
March 2014	1.4	3.8	3.0	2.8	3.2	0.1	9.1	23.4
April 2014	1.2	2.9	3.0	2.2	2.6	0.1	7.0	19
May 2014	1.4	4.2	3.1	1.9	3.1	0.1	8.0	21.8
June 2014	0.8	2.2	2.6	0.8	1.8	0.1	5.7	14
July 2014	1.0	2.8	3.0	1.1	1.9	0.1	9.5	19.4
August 2014	1.1	3.1	2.9	1.2	1.9	0.2	6.9	17.3
September 2014	0.9	2.8	2.5	1.2	1.7	0.2	5.6	14.9
October 2014	1.0	3.2	2.4	1.1	1.9	0.2	5.5	15.3
November 2014	1.0	2.6	2.6	1.1	1.9	0.2	6.0	15.4
December 2014	0.9	2.9	2.3	1.3	1.9	0.2	5.2	14.7
January 2015	0.8	2.7	2.2	1.0	1.4	0.3	4.5	12.9
February 2015	0.6	2.1	1.6	1.0	1.4	0.2	4.5	11.4
March 2015	0.7	2.1	1.9	0.8	1.3	0.2	4.1	11.1
April 2015	0.6	1.9	1.7	0.8	1.1	0.2	3.8	10.1
May 2015	0.6	1.8	1.8	0.7	1.1	0.2	3.9	10.1
June 2015	0.6	1.7	1.7	0.7	1.1	0.2	3.8	9.8
July 2015	0.5	1.7	1.6	0.7	1.0	0.2	3.7	9.4
August 2015	0.6	1.8	1.6	0.8	1.2	0.2	3.8	10.0
<b>Cumulative COCs Removed</b>	<b>21.3</b>	<b>62.0</b>	<b>49.7</b>	<b>32.4</b>	<b>45.0</b>	<b>4.0</b>	<b>127.2</b>	<b>341.6</b>

\* Operational Period for November 2013 was Nov 18-Nov 30

Contaminant mass removal is calculated using the combined influent contaminant of concern (COC) concentrations as determined through an average of sampling events or a specific sampling event and the total combined influent flow for the period of performance. The formula is as follows:

$$Removal(In Pounds) = \left[ \frac{Combined\ Influent\ (in\ Gallons)}{1,000,000} \right] \left[ \frac{8.345\ Pounds}{1\ Gallon} \right] [Concentration\ (in\ \frac{mg}{L})]$$

**Table 18**  
**Proposed Semi-Annual Water Level Monitoring Program**

**Remedial Action Status Report**  
**October 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

USAS	LSAS	AF Gravels	S&P Sands	Lower AF Sands	Surface Water
PZ-USAS-02	PZ-LSAS-7	IWL-1	MW-23	MW-19	Staff Gauge-1R
PZ-USAS-03	MW-33	MW-55	MW-34	MW-22	Staff Gauge-02
PZ-USAS-04	MW-37	MW-102	MW-44	MW-46	Staff Gauge-03
PZ-USAS-05	MW-39	MW-124	MW-45	MW-145	Staff Gauge-04
PZ-USAS-06	MW-41	MW-127	MW-49	MW-155	<del>Staff Gauge-05</del>
PZ-USAS-08	MW-43	MW-129	MW-52	MW-170	<del>Staff Gauge-06</del>
PZ-USAS-09	MW-48	MW-130	MW-57	MW-174	Staff Gauge-07
PZ-USAS-10	MW-68	MW-131	MW-58	MW-181	Staff Gauge-08
PZ-USAS-11	MW-77	MW-132	MW-59		Staff Gauge-09
PZ-USAS-12	MW-78	MW-133	MW-128		Stilling Well-1R
PZ-USAS-13	MW-79	MW-134	MW-144		Stilling Well-02
PZ-USAS-14	MW-80	MW-135	MW-173		Stilling Well-03
PZ-USAS-15	MW-81	MW-143	MW-180		Stilling Well-04
PZ-USAS-16	MW-82	MW-153	MW-182		<del>Stilling Well-05</del>
PZ-USAS-17	MW-84	MW-158	MW-222		
PZ-USAS-18	MW-85	MW-164	MW-252		
PZ-USAS-19	MW-86R	MW-171			
PZ-USAS-20	MW-87	MW-172			
MW-3	MW-91	MW-179			
MW-4	MW-92	MW-175			
MW-5	MW-93	MW-185			
MW-6	MW-98	MW-221			
<del>MW-7D</del>	MW-101	MW-231			
MW-8D	MW-105	MW-232			
MW-9D	MW-113	MW-233			
MW-10	MW-142	MW-239			
MW-11R	MW-152	MW-249			
MW-12	MW-168	MW-248			
MW-13D	MW-171	MW-250			
MW-14D	MW-178	MW-253			
MW-15D					
MW-16D	MW-230				
MW-17D	MW-243				
MW-18D					
MW-20					
MW-24					
MW-25					
MW-26					
MW-27					
MW-29					
MW-30					
MW-32					
MW-35					
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MW-76					
MW-89					
MW-90					
MW-94					
MW-100					
MW-103					
MW-104					
MW-107					
MW-108					
MW-109					
MW-110R					
MW-114					
MW-115					
MW-116					
MW-121					
MW-126					
MW-141					
MW-146					
MW-151					
MW-156					
MW-162					
MW-167					
MW-219					
MW-229					
MW-242					
MW-254 (MW-BT-1)					

**Footnotes:**

USAS - Upper Surficial Aquifer System  
LSAS - Lower Shallow Aquifer System  
AF Gravels - Arcadia Formation Gravels  
S&P Sands - Salt & Pepper Sands  
Lower AF Sands - Lower Arcadia Formation Sands  
Red ~~strikethrough~~ Indicates monitoring well has been abandoned and staff gauge/stilling well has been removed or could not be located.  
Additions to water level program in 2015 are shown in blue

**Table 19**  
**Proposed and Revised Annual Groundwater Sampling Program**  
**and RAPA Semi-Annual Sampling Program**

**Remedial Action Status Report**  
**October, 2015**  
**Lockheed Martin Tallevast Site**  
**Tallevast, Florida**

USAS		LSAS		AF Gravels		S&P Sands		Lower AF Sands		Floridan	
Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual	Semi-Annual	Annual
	MW-8D		PZ-LSAS-1		2400 TALLEVAST RD		MW-21	X	MW-19		7851 15TH ST E #2
	MW-9D		PZ-LSAS-2		7561/7571 15TH ST E	X	MW-23		MW-22		<del>7500-26TH CT E</del>
	MW-11R		PZ-LSAS-4		EW-UAFG-1	X	MW-44		MW-31		<del>2414 Tallevast Rd Well #2</del>
	MW-13D		PZ-LSAS-5	X	IWI-1	X	MW-45		MW-50		<del>7021 15TH ST E #2</del>
	MW-15D		PZ-LSAS-6		MW-55		MW-49		<del>MW-64</del>		<del>MW-123</del>
	MW-16D		PZ-LSAS-7		MW-83		MW-52		MW-155		<del>MW-164</del>
	MW-17D	X	MW-33	X	MW-102		MW-53		MW-160		<del>MW-264</del>
	MW-20	X	MW-37		MW-124	X	MW-54				
	MW-24		MW-39		MW-127	X	MW-57				
	MW-25	X	MW-41	X	MW-129		MW-58				
	MW-26	X	MW-43		MW-130		MW-59				
X	MW-27	X	MW-48	X	MW-131		<del>MW-176</del>				
	MW-28	X	MW-68		MW-132		<del>MW-182</del>				
X	MW-29		MW-77	X	MW-133	X	MW-128				
	MW-30		MW-78	X	MW-134		MW-252				
X	MW-32	X	MW-79		MW-135		IWI-2				
X	MW-35	X	MW-80		MW-143						
X	MW-36	X	MW-81		MW-148						
	MW-38	X	MW-82		MW-158						
X	MW-40		MW-84		MW-164						
X	MW-42	X	MW-85		MW-169*						
X	MW-47	X	MW-86R <sup>1/</sup>		MW-175						
	MW-62		MW-87		MW-185						
X	MW-63	X	MW-91		MW-200						
	MW-64		MW-92		MW-215						
X	MW-65		MW-93		MW-221						
X	MW-67	X	MW-98	X	MW-231						
X	MW-69		MW-101		MW-232						
	MW-70		MW-105	X	MW-233						
X	MW-71		MW-106	X	MW-239						
X	MW-72		MW-113		MW-248						
	MW-73		MW-117	X	MW-249						
	MW-74		MW-119	X	MW-250						
X	MW-75		MW-152	X	MW-253						
	MW-76		MW-168		MW-255						
	MW-89		MW-220								
	MW-90		MW-230								
X	MW-94		MW-243								
	MW-95										
X	MW-100										
	MW-103										
X	MW-104										
	MW-107										
X	MW-108										
	MW-109										
	MW-110R <sup>1/</sup>										
	MW-111										
XX	MW-114										
	MW-115										
	MW-116										
	MW-118										
	MW-120										
	MW-126										
	MW-141										
	MW-146										
	MW-151										
	MW-156										
	MW-162										
	MW-219										
	MW-242										
X	MW-254 (MW-BT-1)										

**Footnotes:**  
AF Gravels - Arcadia Formation Gravels  
LSAS - Lower Shallow Aquifer System  
Lower AF Sands - Lower Arcadia Formation Sands  
S&P Sands - Salt & Pepper Sands  
USAS - Upper Surficial Aquifer System  
RA MW - An X indicates the monitoring well is included in the remedial action semi-annual sampling program  
Blue XX indicates monitoring well added to the RA sampling program in 2012.  
<sup>1/</sup> MW-110 and MW-86 were replaced by MW-110R and MW-86R in 2012.  
MW-103 was removed and MW-54 was added to the quarterly/semi-annual schedule following a FDEP meeting on 1-14-15  
\* AF Gravels well reclassified as Clay/Sand Zone 1 well.  
MW-11R was installed in January 2015 and added to the annual sampling program  
Wells shown in red ~~through~~ are recommended to be removed from sampling program in 2015 RASR  
Well recommended to be added to sampling program in 2015 RASR is shown in blue.