

April 3, 2013

Mr. Maurice Moore  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region 9  
270 Michigan Avenue  
Buffalo, New York 14203-2999

Subject: **2012 Periodic Review Report  
Alltft Landfill Site /Ramco Steel Site  
Site Nos. 9-15-054 /9-15-046B**

Dear Mr. Moore:

AMEC Environment and Infrastructure, Inc. (Amec), formerly MACTEC Engineering and Consulting, P.C. (Mactec), is submitting this Periodic Review Report (PRR) for the Alltft Landfill Site/Ramco Steel Site (site) on behalf of Honeywell International Inc. (Honeywell). The completed Site Management PRR Notice - Institutional and Engineering controls Certification Form is provided herein as Attachment A, which includes a summary of proposed deed restrictions. A report titled "2012 Annual Operations, Maintenance, and Monitoring Report, Alltft Landfill Site /Ramco Steel Site" (OM&M Report), is included herein as Attachment B. The remainder of this document follows the outline presented in your September 2, 2009 letter.

I. Introduction

A. Site Summary:

The primary remedial objectives at the site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the adjacent wetlands. Remedial construction activities began in November 2003 and were completed in November 2005. The key remedial actions for the site included:

- Consolidation and capping of landfill waste and impacted soils and sediments;
- Construction of groundwater collection and relief trenches for groundwater control (see figures included in Appendix A of the attached OM&M report);
- Groundwater monitoring; and
- Restoration of ponds and wetlands.

The Alltft Landfill Site is located at 579 Tifft Street in the southern portion of the City of Buffalo, Erie County, New York. The Ramco Steel Site is adjacent to the southeastern tip of the Alltft Landfill (see figures included in Appendix A of the attached OM&M Report).

**Correspondence:**

AMEC Environment and Infrastructure  
511 Congress Street, Ste. 200  
Portland, Maine 04101  
USA  
Tel 207-775-5401  
Fax 207-772-4762

The Alltift Landfill Site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order of Consent between AlliedSignal (now Honeywell) and the New York State Department of Environmental Conservation (NYSDEC).

The remediation activities included the adjacent Ramco Steel Site (NYSDEC Site No. 9-15-046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Landfill Site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System (BPDES) Permit. As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill Site and the adjacent Ramco Steel Site.

During 2012, the following routine OM&M activities were completed in accordance with the Operations, Maintenance, and Monitoring Manual, prepared by Parson Engineers, and dated March 2006 (referred to hereafter as the OM&M Manual):

- BSA discharge monitoring
  - Groundwater monitoring
  - Quarterly site inspections
  - Routine maintenance activities
- B. Effectiveness Monitoring: The cap system is intact with suitable vegetative cover, and the wetlands mitigation area appears to be a successfully functioning wetland. Groundwater from the site is flowing into the groundwater capture trench as designed. Analytical results from the BSA monthly discharge sampling was within the BSA permit limits.
- C. Compliance: The OM&M activities conducted in 2012 were performed in accordance with the OM&M Manual and as described in the attached OM&M Report.
- D. Recommendations: Implementation of the activities specified in the OM&M Manual will continue in 2013, as described in the attached OM&M Report and in Section VI E of this letter.

## II. Site Overview

- A. Site Location: The site plan is illustrated on the figures included in Appendix A of the attached OM&M Report. The site is located south of Tiftt Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tiftt Street and Route 5. It is bounded on the north by Tiftt Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel Site; and on the east by Skyway Auto Parts, Inc. Prior to remediation, soils and sediments containing contaminant concentrations exceeding relevant NYSDEC standards were identified at the site.

The site remedy included consolidation and capping of landfill waste and impacted soils and sediments; construction of a groundwater collection trench and a groundwater relief trench; implementation of monthly BSA discharge monitoring; implementation of annual groundwater monitoring; and restoration of ponds and wetlands.

Groundwater collected in the trenches is conveyed via a pumping system to a lift station located at the southeastern corner of the site. The lift station then discharges the collected groundwater to the sewer, under a BSA discharge permit. As required by the current BSA discharge permit, samples of the effluent were collected from the lift station on a semi-annual basis and analyzed for compliance with the parameter limits listed in the permit through 2013.

- B. Chronology: Remediation of the site began in November 2003 and was concluded in November 2005. Waste and impacted sediment relocation was completed in September 2004, the construction of the groundwater collection trench was completed in October 2004, and the landfill capping system was completed in June 2005. Planting of wetland and woody vegetation, creating at least 11.2 acres of emergent marsh and open water habitats, was completed in November 2005.

### III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

- A. The performance, effectiveness and protectiveness of the remedy is verified by ensuring that the cap system is intact as constructed, that groundwater is being routed to the groundwater collection trench, and that the wetlands area is successfully functioning as designed.
- Ensuring the cap system is intact as constructed: Quarterly site inspections are conducted that include monitoring of landfill vegetation, ground inspections, and visual checks for evidence of erosion or subsidence. The results from the inspections indicate that the integrity of the cap appears sound (see the quarterly inspection reports included as Appendix G in the attached OM&M Report).
  - Ensuring that groundwater is being routed to the groundwater collection trench: The integrity of the drainage and of the groundwater collection systems are evaluated during the quarterly site inspections and maintenance of these systems is performed when problems are identified. Water level measurements collected monthly from site monitoring wells, piezometers, and sumps are used to establish quarterly groundwater elevations at the site (see monthly and quarterly water level measurements, included as Appendix C and D, respectively, in the attached OM&M Report). The quarterly groundwater elevations are then used to plot quarterly groundwater contour maps. These contour maps indicate that groundwater at the site is being routed to the groundwater collection trench as designed (see quarterly groundwater contour maps from 2012 included as Appendix E in the attached OM&M Report).
  - Ensuring that the wetlands area is successfully functioning as designed: Wetland Mitigation Area corrective actions identified in 2011 were completed in 2012. A letter report was prepared by Amec on behalf of

Honeywell detailing the completion of the required corrective actions and submitted to the USACE on September 28, 2012 with copy to the NYSDEC (Amec, 2012). In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.

- IV. IC/EC Plan Compliance Report – An IC/EC Plan was submitted to the NYSDEC on December 13, 2012 by Amec, on behalf of Honeywell. Once the IC/EC Plan is adopted, the site will be reclassified from a Class 2 to Class 4 site. As such, it is anticipated that discussion of the status of institutional controls will be included in the 2013 PRR. The status of site engineering controls is discussed in the attached OM&M Report.
- V. Monitoring Plan Compliance Report – A separate Monitoring Plan Compliance Report is not required for this site. Monitoring requirements are addressed in the OM&M Manual.
- VI. Operations and Maintenance Plan Compliance Report
  - A. Components of the OM&M Manual – Requirements of the OM&M Manual include the following:
    - BSA Discharge Monitoring.
    - Groundwater Monitoring and Annual Groundwater Sampling.
    - Landfill Gas Monitoring.
    - Surface Water Level Measurements.
    - Quarterly Site Inspections.
    - Maintenance Activities (including annual mowing of cap, repair of access roads and areas without vegetative cover, repair of areas showing erosion or subsidence, and maintenance of the drainage and groundwater collection systems).
  - B. Summary of OM&M Completed During 2012: BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and other OM&M activities were completed in 2012 in accordance with the OM&M Manual. The following summarizes the activities completed:
    - BSA discharge monitoring was conducted on a semi-annual basis in 2012 in accordance with the BPDES Permit in effect (Permit #09-10-BU098). Collected samples were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. Honeywell's OM&M Contractor - CH2M Hill-OMI - prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring to BSA. All sample results were within the permit limits. The next BSA discharge monitoring event is scheduled for April 2013, and will be conducted consist with the new permit (Permit No. 12-12-BU98).

- Groundwater levels for site piezometers, wells and groundwater collection trench sumps were recorded on a monthly basis. The annual groundwater sampling event was completed in August 2012 and included collection of aqueous samples from background monitoring well (MW-2) and from collection system sumps; the samples were analyzed for parameters as described in the OM&M Manual. The results are summarized in the attached OM&M Report, and the analytical results are included in Appendix F thereto.
  - Quarterly site inspections were conducted as outlined in the OM&M Manual.
  - Routine and non-routine maintenance activities completed in 2012 included the following:
    - o Periodic inspection and cleaning of the lift station flow meter.
    - o Plowing of snow from the entrance road as necessary.
    - o On January 12, 2012, a replacement sump #2 circuit board was ordered due to failure. The circuit board was replaced on January 27, 2012, and Sump #2 was put back on line. Sump #1 was operational as well as Alltiff lift station during this period.
    - o Lubricated the gas vents and locks on February 28, 2012.
    - o Coordinated the repair of the existing phone line on March 9, 2012 and installed an autodialer to provide remote monitoring of collection system.
    - o Replaced methane gas vent GV-2 on April 5, 2012.
    - o Conducted tree and shrub plantings on June 5 and 6, 2012. Conducting watering of plantings on as needed basis.
    - o Replaced gas vent GV1 on June 19, 2012.
    - o Conducted mowing as part of invasive plant species (Phragmites) control on July 5, 2012 and October 5, 2012.
    - o Conducted herbicide application by hand wicking (hand application) to phragmites in areas that were not mowed due to being too wet for mowing on August 15, 2012.
    - o Replaced motor in sump #2 on September 12, 2012. Replacement of the flow meter (3/26/11).
    - o Completed Annual landfill cap mowing on September 18, 2012.
    - o Completed repair of the autodialer phone line on December 19, 2012. (9/16/11)
- C. Evaluation of Remedial Systems: During 2012, the remedial systems appeared to be effectively achieving the objectives of the remedial action, as described in the attached OM&M Report.
- D. OM&M Deficiencies: Most of the monitoring points are fully functional; however, there are three damaged or destroyed monitoring points (MW-1, PZ-14, and PZ-16).
- E. Conclusions and Recommendations: The following conclusions were developed based on the data collected during the 2012 OM&M period:
- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the

remedy remains protective for direct contact with waste and impacted soils and sediments.

- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based upon the positive results of the wetland mitigation area corrective action activities presented herein, the requirements for closure of the Wetland Permit have been achieved; therefore, further mitigation, monitoring, or reporting activities in accordance with the Wetland Permit will not be conducted. Watering of the plants as may be required due to drought conditions and strengthening of the fence to protect against deer browsing as described above will be included with site operation and maintenance activities. In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required. Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during 2012 OM&M period:

- Concentrations of PCBs and pesticides have not been detected in groundwater samples collected at the site since monitoring activities began in 2006. Therefore, these analytes will not be included for future annual groundwater monitoring events.
- BSA Discharge Monitoring – In accordance with the new BSA permit, discharge monitoring will be conducted on a semi-annual basis during the months of April and October 2013, with reports issued to BSA and copied to the NYSDEC.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2013 with groundwater monitoring results reported in the next annual PRR submittal.
- Water Level Measurements – TCollection of water level measurements will be conducted on a quarterly basis in 2013 in conjunction with site inspections.
- Landfill Gas Monitoring – in conjunction with the site inspections, measurements of the lower explosive limit and of the percentage of methane gas will continue to be collected on a quarterly basis from gas vents GV-1, GV-2, GV-3, from four sump locations, and from four ground surface locations at the landfill perimeter.
- Surface Water Level Measurements – in conjunction with the site inspections, surface water level measurements will continue to be collected on a quarterly basis using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2013.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed, during 2013.

- The next PRR submittal, to include the annual OM&M report, should be completed and submitted to NYSDEC by the end of the 1<sup>st</sup> quarter 2014.

#### VII. Overall PRR Conclusions

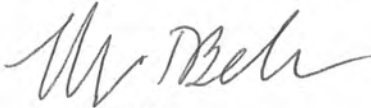
- A. Compliance: Activities were completed during 2012 as noted above.
- B. Performance and Effectiveness of the Remedy: The condition of the cap system and consistent groundwater flow into the groundwater collection trench indicate that the remedy is performing effectively.
- C. Future PRR submittals: It is anticipated that the next PRR will be submitted by the end of the 1<sup>st</sup> quarter 2014.

#### Closing

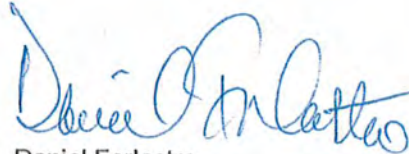
Please contact Ryan Belcher at (207) 828-3530 with any questions or comments on this submittal.

Respectfully,

AMEC  
Environment & Infrastructure, Inc.



Ryan Belcher  
Senior Engineer



Daniel Forlastro  
Principal Engineer

#### Attachments

cc: R. Galloway (Honeywell)  
J. Mojka (Honeywell)  
D. Sutton (City of Buffalo)

**ATTACHMENT A**

**PRR NOTICE  
IC/EC CONTROLS CERTIFICATION FORM**



Enclosure 1  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



| Site Details                                                   | Box 1                  |
|----------------------------------------------------------------|------------------------|
| <b>Site No.</b> 9-15-054 /9-15-046B                            |                        |
| <b>Site Name</b> Alltft Landfill Site /Ramco Steel Site        |                        |
| <b>Site Address:</b> 579 Tiftt Street                          | <b>Zip Code:</b> 14202 |
| <b>City/Town:</b> Buffalo                                      |                        |
| <b>County:</b> Erie                                            |                        |
| <b>Current Use:</b> Landfill                                   |                        |
| <b>Intended Use:</b> Restrcted Land Use, per deed restrlctions |                        |

| Verification of Site Details                                                                                                                                                                                                             | Box 2                               |                                     |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                                                                                                                                                                                                                                          | YES                                 | NO                                  | N/A                                 |
| 1. Are the Site Details above, correct?                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| If NO, are changes handwritten above or included on a separate sheet?                                                                                                                                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?                                                                                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| If YES, Is documentation or evidence that documentation has been previously submitted included with this certification?                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |
| 3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?                                                                                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| If YES, Is documentation or evidence that documentation has been previously submitted included with this certification?                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |
| 4. Has a change-of-use occurred since the initial/last certification?                                                                                                                                                                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| If YES, is documentation or evidence that documentation has been previously submitted included with this certification?                                                                                                                  | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |
| 5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment for offsite contamination are no longer valid? | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| If YES, Is the new information or evidence that new information has been previously submitted included with this Certification?                                                                                                          | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |
| 6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years) ?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| If NO, are changes in the assessment included with this certification?                                                                                                                                                                   | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |

**SITE NO.** 9-15-054 /9-15-046B

**Box 3**

**Description of Institutional Controls**

**Control Certification**

Yes No

Operations, Monitoring, and Maintenance

☒ ☐

**\*PROPOSED DEED RESTRICTIONS, including:**

Monitoring and Maintenance of Engineering Control Systems

☐ ☒

Excavation Protocol

☐ ☒

Land Use Restrictions

☐ ☒

Groundwater Use Restrictions

☐ ☒

**Box 4**

**Description of Engineering Controls**

**Control Certification**

Yes No

Cover System, Landfill cap, 6 NYCRR, Part 360

☒ ☐

Fencing/Access Control

☒ ☐

Groundwater Control and Recovery System

☒ ☐

**Control Certification Statement**

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(d) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control.

(e) If a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

**\*Note:** Honeywell is currently working with NYSDEC to locate responsible persons for several of the properties involved so that deed restrictions can be implemented.

IC/EC CERTIFICATIONS  
SITE NO.

Box 5

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 2 & 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Richard Galloway at Honeywell, 101 Columbia Rd, Morristown NJ  
print name print business address 07962

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Richard W. Galloway  
Signature of Owner or Remedial Party Rendering Certification

April 2, 2013  
Date

Box 6

**QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE**

I certify that all information and statements in Box 4 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL FORLASTRO at 800 N. BELL AVE, SUITE 200, CARNEGIE,  
print name print business address PA 15106

am certifying as a Qualified Environmental Professional for the HONEYWELL INTERNATIONAL INC.

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

Daniel Forlastro

Signature of Qualified Environmental Professional, for  
the Owner or Remedial Party, Rendering  
Certification



Stamp (If Required)

4/2/13  
Date

## Enclosure 2

### **Certification of Institutional Controls/ Engineering Controls (ICs/ECs) Step-by-Step Instructions, Certification Requirements and Definitions**

The Owner, or Remedial Party, and when necessary, a Professional Engineer (P.E.), or the Qualified Environmental Professional (QEP), must review and complete the IC/EC Certification Form, sign the IC/EC Certifications Signature Page, and return it, along with the Periodic Review Report (PRR), within 45 days of the date of this notice.

Please use the following instructions to complete the IC/EC Certification.

#### **I. Verification of Site Details (Box 1 and Box 2):**

Answer the six questions in the Verification of Site Details Section. Questions 5 and 6 refer to only sites in the Brownfield Cleanup Program. ECL Section 27-1415-7(c) is included in

**IV. IC/EC Certification Requirements.** The Owner and/or your P.E. or QEP may include handwritten changes and/or other supporting documentation, as necessary.

#### **II. Verification of Institutional / Engineering Controls (Box 3 and Box 4)**

Review the listed Institutional / Engineering Controls, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party is to petition the Department requesting approval to remove the control.

2. Select "YES" or "NO" for **Control Certification** for each IC/EC, based on Sections (a)-(e) of the **Control Certification Statement**.

If the Department concurs with the explanation, the corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Project Manager. If the Department has any questions or concerns regarding the completion of the certification, the Project Manager will contact you.

3. If you cannot certify "Yes" for each Control, please continue to complete the remainder of this **Control Certification** form. Attach supporting documentation that explains why the **Control Certification** cannot be rendered, as well as a statement of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Control Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is conducted.

If the Department concurs with the explanation, the corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Project Manager. Once the corrective measures are complete a new Periodic Review Report (with IC/EC Certification) is to be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

### III. IC/EC Certification by Signature (Box 5 and Box 6):

1. If you certified "Yes" for each Control, please complete and sign the IC/EC Certifications page. To determine WHO signs the **IC/EC Certification**, please use Table 1. Signature Requirements for the IC/EC Certification, which follows.

| Table 1. Signature Requirements for Control Certification Page                    |                                                                                                    |                                                                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Type of Control                                                                   | Example of IC/EC                                                                                   | Required Signatures                                                                      |
| IC only                                                                           | Environmental Easement<br>Deed Restriction.                                                        | A site or property owner or<br>remedial party.                                           |
| IC with an EC which does not<br>include a treatment system or<br>engineered caps. | Fence, Clean Soil Cover,<br>Individual House Water<br>Treatment System,<br>Vapor Mitigation System | A site or property owner or<br>remedial party, and a QEP.<br>(P.E. license not required) |
| IC with an EC that includes<br>treatment system or an<br>engineered cap.          | Pump & Treat System<br>providing hydraulic control of a<br>plume, Part 360 Cap.                    | A site or property owner or<br>remedial party, and a QEP with<br>a P.E. license.         |

### IV. IC/EC Certification Requirements:

Division of Environmental Remediation Program Policy requires periodic certification of IC(s) and EC(s) as follows:

For Environmental Restoration Projects: N.Y. Env'tl Conserv.Law Section 56-0503  
(Environmental restoration projects; state assistance)

For State Superfund Projects: Env'tl Conserv.Law Section 27-1318.  
(Institutional and engineering controls)

For Brownfields Cleanup Program Projects: Env'tl Conserv.Law Section 27-1415. (Remedial  
program requirements)

Env'tl Conserv.Law Section 27-1415-7(c) states:

- (c) At non-significant threat sites where contaminants in groundwater at the site boundary contravene drinking water standards, such certification shall also certify that no new information has come to the owner's attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of offsite contamination are no longer valid. Every five years the owner at such sites shall certify that the assumptions made in the qualitative exposure assessment remain valid. The requirement to provide such certifications may be terminated by a written determination by the Commissioner in consultation with the Commissioner of Health, after notice to the parties on the brownfield site contact list and a public comment period of thirty days.

Voluntary Cleanup Program: Applicable program guidance.

Petroleum Remediation Program: Applicable program guidance.

Federal Brownfields: Applicable program guidance.

Manufactured Gas Plant Projects: Applicable program guidance (including non-registry listed MGP's).

WHERE to mail the signed Certification Form by Thursday, May 24, 2007 (45 days of the date of the notice):

New York State Department of Environmental Conservation  
Division of Environmental Remediation

Attn: , Project Manager

**Please note that extra postage may be required.**

## V. Definitions

**“Engineering Control” (EC)**, means any physical barrier or method employed to actively or passively contain, stabilize, or monitor contamination, restrict the movement of contamination to ensure the long-term effectiveness of a remedial program, or eliminate potential exposure pathways to contamination. Engineering controls include, but are not limited to, pavement, caps, covers, subsurface barriers, vapor barriers, slurry walls, building ventilation systems, fences, access controls, provision of alternative water supplies via connection to an existing public water supply, adding treatment technologies to such water supplies, and installing filtration devices on private water supplies.

**“Institutional Control” (IC)**, means any non-physical means of enforcing a restriction on the use of real property that limits human and environmental exposure, restricts the use of groundwater, provides notice to potential owners, operators, or members of the public, or prevents actions that would interfere with the effectiveness of a remedial program or with the effectiveness and/or integrity of operation, maintenance, or monitoring activities at or pertaining to a remedial site.

**“Professional Engineer” (P.E.)** means an individual or firm licensed or otherwise authorized under article 145 of the Education Law of the State of New York to practice engineering.

**“Property Owner”** means, for purposes of an IC/EC certification, the actual owner of a property. If the site has multiple properties with different owners, the Department requires that the owners be represented by a single representative to sign the certification.

**“Oversight Document”** means any document the Department issues pursuant to each Remedial Program (see below) to define the role of a person participating in the investigation and/or remediation of a site or area(s) of concern. Examples for the various programs are as follows:

**BCP** (after approval of the BCP application by DEC) - Brownfield Site Cleanup Agreement.

**ERP** (after approval of the ERP application by DEC) - State Assistance Contract.

**Federal Superfund Sites** - Federal Consent Decrees, Administrative Orders on Consent or Unilateral Orders issued pursuant to CERCLA.

**Oil Spill Program** - Order on Consent, or Stipulation pursuant to Article 12 of the Navigation Law (and the New York Environmental Conservation Law).

**State Superfund Program** - Administrative Consent Order, Record of Decision.

**VCP** (after approval of the VCP application by DEC) - Voluntary Cleanup Agreement.

**RCRA Corrective Action Sites** - Federal Consent Decrees, Administrative Orders on Consent or permit conditions issued pursuant to RCRA.

**“Qualified Environmental Professional” (QEP)**, means a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the presence of releases or threatened releases to the surface or subsurface of a property or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified by this Part. Such a person must:

(1) hold a current professional engineer’s or a professional geologist’s license or registration issued by the State or another state, and have the equivalent of three years of full-time relevant experience in site investigation and remediation of the type detailed in this Part; or

(2) be a site remediation professional licensed or certified by the federal government, a state or a recognized accrediting agency, to perform investigation or remediation tasks consistent with Department guidance, and have the equivalent of three years of full-time relevant experience.

**“Qualitative Exposure Assessment”** means a qualitative assessment to determine the route, intensity, frequency, and duration of actual or potential exposures of humans and/or fish and wildlife to contaminants.

**“Remedial Party”** means a person implementing a remedial program at a remedial site pursuant to an order, agreement or State assistance contract with the Department.

**“Site Management” (SM)** means the activities undertaken as the last phase of the remedial program at a site, which continue after a Certificate of Completion is issued. Site management is conducted in accordance with a site management plan, which identifies and implements the institutional and engineering controls required for a site, as well as any necessary monitoring and/or operation and maintenance of the remedy.

**“Site Management Plan” (SMP)** means a document which details the steps necessary to assure that the institutional and engineering controls required for a site are in-place, and any physical components of the remedy are operated, maintained and monitored to assure their continued effectiveness, developed pursuant to Section 6 (DER10 Technical Guide).

**“Site Owner”** means the actual owner of a site. If the site has multiple owners of multiple properties with ICs and/or ECs, the Department requires that the owners designate a single representative for IC/EC Certification activities.

**ATTACHMENT B**

**2012**

**ANNUAL OPERATIONS, MAINTENANCE, AND  
MONITORING REPORT**

# **2012 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT**

**ALLTIFT LANDFILL SITE /RAMCO STEEL SITE**

**Buffalo, Erie County, New York  
(NYSDEC Site Nos. 9-15-054 /9-15-046B)**

**Submitted To:**



**The New York State Department of Environmental Conservation  
Division of Hazardous Waste Remediation**

**Submitted By:**

**Honeywell**

**101 Columbia Road  
Morristown, NJ 07962**

**Prepared By:**



**AMEC Environment & Infrastructure, Inc.  
511 Congress Street  
Portland, Maine 04101**

**March 2013**

# 2012 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFT LANDFILL SITE /RAMCO STEEL SITE

Buffalo, Erie County, New York  
(NYSDEC Site Nos. 9-15-054 /9-15-046B)

Submitted To:  
The New York State Department of Environmental Conservation  
Division of Hazardous Waste Remediation

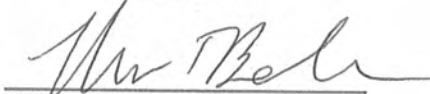
Submitted By:  
**Honeywell**  
101 Columbia Road  
Morristown, NJ 07962

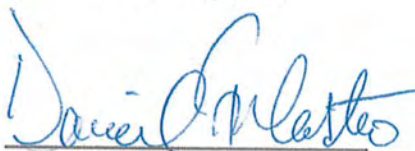
Prepared By:



AMEC Environment & Infrastructure, Inc.  
511 Congress Street  
Portland, Maine 04101

March 2013

  
Ryan Belcher  
Senior Engineer

  
Daniel Forlastro  
Principal Engineer

AMEC Project Number: 3410120905

## TABLE OF CONTENTS

---

|       |                                                                    |     |
|-------|--------------------------------------------------------------------|-----|
| 1.0   | INTRODUCTION .....                                                 | 1-1 |
| 1.1   | PROJECT BACKGROUND AND SITE DESCRIPTION .....                      | 1-1 |
| 1.2   | 2012 OM&M ACTIVITIES .....                                         | 1-2 |
| 2.0   | SUMMARY OF 2012 OM&M ACTIVITIES .....                              | 2-1 |
| 2.1   | BSA DISCHARGE MONITORING .....                                     | 2-1 |
| 2.2   | GROUNDWATER MONITORING .....                                       | 2-1 |
| 2.2.1 | Quarterly Water Level Measurements.....                            | 2-1 |
| 2.2.2 | Groundwater Sampling .....                                         | 2-2 |
| 2.3   | LANDFILL GAS MONITORING .....                                      | 2-3 |
| 2.4   | SITE INSPECTIONS .....                                             | 2-3 |
| 2.5   | MAINTENANCE ACTIVITIES .....                                       | 2-3 |
| 2.6   | WETLAND MONITORING .....                                           | 2-4 |
| 2.6.1 | Background of Wetland Mitigation Area Monitoring Requirements..... | 2-4 |
| 2.6.2 | Wetland Mitigation Area Corrective Actions .....                   | 2-5 |
| 2.6.3 | Wetland Mitigation Area Permit Closure .....                       | 2-8 |
| 3.0   | RESULTS OF 2012 OM&M ACTIVITIES .....                              | 3-1 |
| 3.1   | BSA DISCHARGE MONITORING .....                                     | 3-1 |
| 3.2   | GROUNDWATER MONITORING .....                                       | 3-1 |
| 3.2.1 | Quarterly Water Level Measurements.....                            | 3-1 |
| 3.2.2 | Groundwater Sampling .....                                         | 3-2 |
| 3.3   | SURFACE WATER MEASUREMENTS .....                                   | 3-3 |
| 3.4   | LANDFILL GAS MONITORING .....                                      | 3-3 |
| 3.5   | SITE INSPECTIONS .....                                             | 3-3 |
| 3.5.1 | February 28, 2012 Inspection .....                                 | 3-4 |
| 3.5.2 | June 6, 2012 Inspection.....                                       | 3-4 |
| 3.5.3 | September 18, 2012 Inspection .....                                | 3-4 |
| 3.5.4 | November 20, 2012 Inspection .....                                 | 3-5 |
| 4.0   | CONCLUSIONS AND RECOMMENDATIONS .....                              | 4-1 |
| 5.0   | REFERENCES .....                                                   | 5-1 |

## TABLES

---

Table 1: Summary of Groundwater Analytical Results – 2012

Table 2: Quarterly Landfill Gas Monitoring Data - 2012

## APPENDICES

---

- A: Site Location and Current Conditions Site Plan Figures
- B: 2012 Semi-Annual Discharge Monitoring Reports
- C: Monthly Water Level Measurements – 2012
- D: Quarterly Groundwater Elevations – 2012
- E: Quarterly Groundwater Contour Maps – 2012
- F: Groundwater Analytical Results – August 2012
- G: Site Inspection Forms

## ACRONYMS AND ABBREVIATIONS

---

|        |                                                         |
|--------|---------------------------------------------------------|
| Amec   | AMEC Environmental & Infrastructure, Inc.               |
| BSA    | Buffalo Sewer Authority                                 |
| BPDES  | Buffalo Pollutant Discharge Elimination System          |
| CWD    | coarse wood debris                                      |
| EPA    | Environmental Protection Agency                         |
| LEL    | Lower Explosive Limit                                   |
| Mactec | Mactec Engineering and Consulting, P.C.                 |
| MS     | Matrix Spike                                            |
| MSD    | Matrix Spike Duplicate                                  |
| mg/L   | milligrams per liter                                    |
| µg/L   | micrograms per liter                                    |
| NYSDEC | New York State Department of Environmental Conservation |
| OM&M   | Operations and maintenance Manual                       |
| OMI    | CH2M Hill OMI                                           |
| PCB    | polychlorinated biphenyls                               |
| PRR    | Periodic Review Report                                  |
| SVOC   | Semivolatile Organic Compound                           |
| USACE  | United States Army Corps of Engineers                   |
| VOC    | Volatile Organic Compound                               |

## **1.0 INTRODUCTION**

In accordance with a New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Index No. B9-0194-87-07), Honeywell (formerly Allied-Signal, Inc.) performed a remedial action at the Alltift Landfill and the Ramco Steel sites, and is performing long-term operations, maintenance, and monitoring (OM&M) at the sites. AMEC Environment and Infrastructure, Inc. (Amec), formerly MACTEC Engineering and Consulting, Inc., (Mactec), has prepared this report on behalf of Honeywell to document the results of the OM&M activities performed in 2012. The activities described in this report were completed in accordance with the sites Operations, Maintenance, and Monitoring Manual (Parsons, 2006).

The primary remedial objectives at the Alltift Landfill site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the Buffalo River. The key remedial actions for the site included the consolidation and capping of landfill waste and impacted soils and sediments; construction of groundwater collection and relief trenches for groundwater control; groundwater monitoring; and restoration of ponds and wetlands. Remedial construction began in November 2003 and was completed in November 2005.

This annual report has been prepared to summarize the OM&M activities completed at the sites from January 1, 2012 through December 31, 2012. Figures showing the site location and current conditions Site Plan are included as Appendix A. It is anticipated that the next annual OM&M report will be submitted by the end of the 1<sup>st</sup> quarter 2014.

### **1.1 Project Background and Site Description**

The Alltift Landfill site is located at 579 Tift Street in the southern portion of the City of Buffalo, Erie County, New York. Figures that show the site location and current conditions site plan are provided in Appendix A. The site is located south of Tift Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tift Street and Route 5. It is bounded on the north by Tift Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel site; and on the east by Skyway Auto Parts, Inc.

The Ramco Steel site is adjacent to the southeastern tip of the Alltift Landfill, and is approximately 8.5 acres in size and generally square in shape. The site is bounded on the north by the Alltift Landfill and Skyway Auto Parts, Inc.; on the east by Niagara Cold Drawn; on the west by a railroad right-of-way and tracks; and on the south by Republic

Steel or LTV (NYSDEC Site No. 9-15-047) and an abandoned facility formerly housing Sloan Auto Parts. The Ramco Steel site encompasses the body of water known as the Ramco Pond.

The Alltift Landfill site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order on Consent between AlliedSignal (now Honeywell) and the NYSDEC (NYSDEC, 1997). Remediation activities included those conducted on the adjacent Ramco Steel site (NYSDEC Site No. 9-15-046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System Permit (BSA Permit). As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill site and the adjacent Ramco Steel property (see Site Plan in Appendix A).

## **1.2 2012 OM&M Activities**

OM&M activities conducted at the site in 2012 included BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and routine and non-routine maintenance activities. These activities are described in detail in Section 2.0 of this report.

## **2.0 SUMMARY OF 2012 OM&M ACTIVITIES**

Since September 2007, Honeywell has contracted with CH2M HILL-OMI (OMI) to perform the OM&M activities at the site. In 2012, the annual groundwater sampling activities were also conducted by OMI. The following sections summarize the OM&M activities completed in 2012.

### **2.1 BSA Discharge Monitoring**

As part of the Remedial Action, a groundwater collection trench was installed along the western and southern perimeter of the landfill cap to intercept shallow groundwater, and a groundwater relief trench was installed along the western toe of the landfill to control leachate. The groundwater collection trench contains four vertical pumping points, identified as Sumps 1 through 4, which are constructed similar to extractions wells. Pumps in Sumps 1 and 2 operate continually in order to transfer the groundwater from the collection and relief trenches to a lift station at the southeastern corner of the site. The lift station then transfers the water through a force main to a manhole located on Hopkins Street, under a permit with the BSA.

In accordance with the BSA permit, samples from the lift station were collected and analyzed semi-annually in April and October 2012. The results of the sampling are discussed in Section 3.1.

### **2.2 Groundwater Monitoring**

The 2012 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. These activities are summarized in the following subsections. The results of the activities are discussed in Section 3.2.

#### **2.2.1 Quarterly Water Level Measurements**

Water level measurements were collected on a quarterly basis from piezometers PZ-1 through PZ-13, piezometer PZ-15, and sumps 1 through 4, and annually from monitoring well MW-2, to monitor groundwater elevations upgradient, within, and downgradient of the groundwater collection trench. Three monitoring points specified in the OM&M Manual could not be included in the monitoring program: background monitoring well MW-1 has apparently been destroyed or paved over by the adjacent property owner, and landfill

piezometers PZ-14 and PZ-16 have damaged well casing, which does not allow passage of a water level meter or sampling equipment.

## 2.2.2 Groundwater Sampling

On September 12 and 13, 2012 OMI collected groundwater samples from background monitoring well MW-2 and the groundwater collection trench sumps. The samples were collected and analyzed in accordance with the OM&M Manual (Parsons, 2006). During the sampling event, the depth to water and total well depth were gauged and recorded at monitoring well MW-2 prior to purging activities. Well MW-2 was purged and sampled using low-flow techniques, which includes monitoring field measurements such as pH, temperature, conductivity, and dissolved oxygen for stabilization prior to sampling. Field measurements of these parameters were also recorded at all of the sumps prior to sampling. A peristaltic pump with dedicated tubing was used to collect each sample. Grab samples were collected from each sump, and one composite sample was collected from the four sumps during the sampling event. Due to slow recharge in MW-2, a Matrix Spike (MS), Matrix Spike Duplicate (MSD), and duplicate sample were collected from Sump 4. Immediately upon completion of sample collection, the groundwater samples were packed with ice in laboratory coolers, and delivered to the laboratory. Chain-of-Custody procedures were followed per the OM&M Manual (Parsons, 2006).

The 2012 groundwater samples were analyzed as follows:

| Parameter                                                                                                                           | Analytical Method                          | Where Collected                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|
| <b>Volatile Organic Compounds (VOCs)</b><br>Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, 1,4-dichlorobenzene | Environmental Protection Agency (EPA) 8260 | MW-2<br>Sumps 1 through 4 <sup>(1)</sup><br>Sump 4 (Duplicate, MS, MSD)        |
| <b>Semivolatile Organic Compounds (SVOCs)</b><br>naphthalene, 4-chloroaniline                                                       | EPA 8270                                   | MW-2<br>Sump 4<br>Sump Composite <sup>(2)</sup><br>Sump 4 (Duplicate, MS, MSD) |
| <b>Pesticides/ polychlorinated biphenyls(PCBs)</b><br>4,4-DDD, 4,4-DDE<br>PCB Aroclors                                              | EPA 8081<br>EPA 608                        | MW-2<br>Sump 4<br>Sump Composite <sup>(2)</sup><br>Sump 4 (Duplicate, MS, MSD) |
| <b>Total Metals</b><br>antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury                                         | EPA 6020/6010 /7470                        | MW-2<br>Sump 4<br>Sump Composite <sup>(2)</sup><br>Sump 4 (Duplicate, MS, MSD) |

Notes:

- (1) Individual samples were collected for VOC analysis to minimize potential volatilization of compounds
- (2) Composite of Sump 1 through Sump 4

## **2.3 Landfill Gas Monitoring**

Landfill gas monitoring was completed on a quarterly basis by OMI at the three gas vents, the four corners of the landfill and from each of the sumps in 2012. The results of the monitoring are described in Section 3.4.

## **2.4 Site Inspections**

Quarterly inspections were completed by OMI on February 28, June 6, September 18, and November 20, 2012. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The cap, collection systems, monitoring points, and gas vents were visually inspected during each event. The results of the inspections are discussed in Section 3.5.

## **2.5 Maintenance Activities**

Maintenance activities were performed routinely by OMI for the site on a monthly basis or as needed throughout the year. The following is a summary of the routine and additional maintenance activities completed at the site during the 2012 calendar year:

- Periodic inspection and cleaning of the lift station flow meter.
- Plowing of snow from the entrance road as necessary.
- On January 12, 2012, a replacement sump #2 circuit board was ordered due to failure. The circuit board was replaced on January 27, 2012, and Sump #2 was put back on line. Sump #1 was operational as well as the Alltiff lift station during this period.
- Lubricated the gas vents and locks on February 28, 2012.
- Coordinated the repair of the existing phone line on March 9, 2012 and installed an autodialer to provide remote monitoring of the collection system.
- Replaced methane gas vent GV-2 on April 5, 2012.
- Conducted tree and shrub plantings on June 5 and 6, 2012. Conducting watering of plantings on an as needed basis.
- Replaced gas vent GV-1 on June 19, 2012.
- Conducted mowing as part of invasive plant species (Phragmites) control on July 5, 2012 and October 5, 2012.

- Conducted herbicide application by hand wicking (hand application) to phragmites in areas that were not mowed due to being too wet for mowing on August 15, 2012.
- Replaced motor in sump #2 pump on September 12, 2012.
- Completed annual landfill cap mowing on September 18, 2012.
- Completed repair of the autodialer phone line on December 19, 2012.

## **2.6 Wetland Monitoring**

### **2.6.1 Background of Wetland Mitigation Area Monitoring Requirements**

In 2005, wetlands were constructed on the site to restore and enhance the wetlands impacted during the capping of the landfill located at the site. Wetland mitigation was undertaken in accordance with a letter issued by the United States Army Corps of Engineers (USACE) regarding Permit Application No. 98-976-0162(0). In accordance with the OM&M Manual (Parsons, 2006) and the USACE Nationwide Permit No. 38 (USACE, 2004), annual wetlands inspections were conducted and wetlands mitigation monitoring reports were produced for the first three years following construction of the mitigation wetland (calendar years 2006, 2007, and 2008).

On February 25, 2011, the USACE Buffalo District Regulatory Branch contacted Honeywell regarding Permit Application No. 98-976-0162(0), their review comments on previous monitoring reports submitted pursuant to the permit, and the status of the report for Year 5 (2010 monitoring season). Honeywell and Amec followed up on the inquiry and participated on a conference call with the USACE Buffalo District Regulatory Branch on March 29, 2011. On April 1, 2011, the USACE requested, via email, that the Year 5 wetland mitigation monitoring data be collected after May 15, 2011 and that a monitoring report be submitted to the USACE Buffalo District Regulatory Branch by July 1, 2011. The Year 5 wetland monitoring was completed from June 13, 2011 to June 16, 2011, and the Year 5 report was prepared and submitted to the USACE on July 1, 2011 (Mactec, 2011). The results of the inspection indicated that the mitigation wetland, which includes 11.4 acres of emergent marsh and open water habitat, is providing wetland functions and values based on observations of wetland hydrology, hydric soils, wetland vegetation, and wildlife. However, the inspection identified two conditions included in the permit that were not met, specifically invasive plant species control and survivorship of planted woody species.

On August 23, 2011, a site walk was conducted by individuals representing the USACE, NYSDEC, Mactec, and Honeywell as a follow up to the Year 5 report submittal to evaluate the mitigation wetland and determine the need for additional mitigation work or monitoring.

To discuss the findings of the site walk and the plan and schedule for implementation of the identified corrective actions necessary to close the Permit, a conference call was conducted between the USACE, NYSDEC, Amec, and Honeywell on September 29, 2011. During the conference call, the USACE and NYSDEC indicated that the mitigation wetland had replaced lost wetland functions and values and were in general concurrence with the Year 5 Report. However, two conditions of the permit were not met and required corrective action, specifically invasive plant species control and woody buffer plantings. In addition, during the site walk it was observed that coarse woody debris placed on site was providing habitat for amphibians and reptiles. In summary, the corrective actions agreed upon as necessary to close the Permit were as follows:

1. Invasive Species Control
2. Habitat Enhancement-Coarse Woody Debris
3. Woody Buffer Restoration

### **2.6.2 Wetland Mitigation Area Corrective Actions**

A work plan was prepared detailing the proposed corrective actions and submitted to the USACE on December 22, 2011 (Amec, 2011). Prior to the submittal of the work plan, Honeywell proceeded in October 2011 with implementation of invasive species control and habitat enhancement, which consisted of the placement of additional coarse woody debris within the mitigation wetland. The work plan included a summary of the corrective actions completed in 2011. Due to the time of year, the planting of the woody buffer was postponed until the spring of 2012. Honeywell received comments from the USACE on the corrective actions work plan on February 13, 2012. In summary, the USACE requested that the work plan be revised to:

- Include the planting of only native trees and shrubs in the wetland mitigation area.
- Provide a tree and shrub planting arrangement with a random, natural layout, which mimics nature.
- Require 85% survivorship of each planted vegetative layer (i.e., 85% shrub survival and 85% tree survival) with a survey to be conducted in September 2012.

Honeywell accepted the additional conditions requested by the USACE as indicated in Amec's letter submitted to the USACE on behalf of Honeywell on March 8, 2012.

The following sections detail the results of the wetland mitigation area corrective actions completed in accordance with the approved work plan.

### **Invasive Species Control**

Common reed (*Phragmites australis*) is the invasive species of concern at the site. Methods implemented at the site to control this invasive species included mechanical control (i.e., mowing) as well as application of herbicides. *Phragmites* mowing events were completed on October 12, 2011 and July 5, 2012. A brush hog mounted on a tracked skid-steer was used to complete the mowing. This piece of equipment was used based on low track pressures and maneuverability.

The herbicide application was done by OP-TECH of Amherst, New York under contract with CH2M Hill - OMI. The *phragmites* areas that were not mowed were treated with herbicide on

October 31, 2011 and August 15 and 16, 2012; this included areas that were too wet to mow. Herbicide application was not conducted in any areas of standing water or immediately adjacent to any water bodies. The herbicide RODEO® (EPA # 62719-324) was applied at a 5% concentration. The herbicide was applied to the *phragmites* by hand wicking (i.e., manual application).

### **Habitat Enhancement - Coarse Woody Debris Placement**

Coarse wood debris (CWD) was placed in six pre-determined locations within the wetland on October 13, 2011 (refer to Figure 2 in Appendix B). The CWD placed at each of the six locations consisted of a stack of three 8 to 10-foot logs. Several of the coarse woody debris piles were investigated to document wildlife use in September 2012. The woody debris was observed to be beginning to decompose and is providing habitat for terrestrial macroinvertebrates, including spiders, insects and beetles. One small mammal was briefly observed; however, species identification was not made as it was not caught. Salamanders or snakes were not observed under the piles that were investigated. Once observations were made, the disturbed piles were replaced in their previous positions.

### **Woody Buffer Restoration - Tree and Shrub Plantings**

The replanting of trees and shrubs fulfills the permit requirement for the establishment of a woody buffer in the mitigation wetland. The woody buffer planted when the mitigation wetland was originally constructed failed to become established; therefore, it was agreed that replacement plantings would be performed to satisfy the conditions of the Army Corps of Engineers Wetland Permit. The restoration of woody vegetation was outlined in the Work Plan, as modified and approved, and included planting trees and shrubs grouped in

six locations within the mitigation wetland. Shrubs and trees were planted in groups to provide “shrub/tree islands” within the emergent wet meadow wetland.

The trees and shrubs were purchased from New England Wetland Plants, Inc. of Amherst, Massachusetts, a reputable supplier of native wetland plants. The trees and shrubs were trucked to the site and received in good condition on June 5, 2012 showing no signs of water stress or disease. Once off loaded from the truck, the plants were counted, inspected, and grouped by planting area and type.

A total of six (6) planting areas were flagged in the mitigation wetland. The planting areas were identified and labeled as Planting Area A through Planting Area F, which were further designated as a type 1 or type 2, the difference being the species of shrubs and trees planted in a given area. The planting areas were selected based on soil conditions, hydrology, and existing plants. An area approximately 20 feet wide by 50 feet long was mowed to facilitate plantings at each of the six locations. Within each planting area, the individual trees and shrubs selected were placed by an Amec wetland scientist based on micro-topography, soils, hydrology and existing vegetation. Refer to Table 3, which lists the number and type of tree and shrub species planted in each of the six planting areas, and Figure 2 in Appendix A, which depicts the approximate locations of the six planting areas.

The trees and shrubs planting work was conducted by representatives from CH2M Hill-OMI with oversight and support from Amec’s wetland scientist. All planting work was done by hand, which included hand digging holes. Holes were dug approximately two times the size of the root ball and a mixture of peat moss and native material was placed in each hole. The peat moss and native material was watered with approximately one gallon of water and thoroughly homogenized. An individual tree or shrub was then installed in the hole and backfilled with native material and tamped in place. This process was repeated for all of the shrub and tree species planted.

Once the planting was completed, fencing was installed around each of the planting areas. The fence was installed to mitigate losses due to deer browsing and protect the planted trees and shrubs from future phragmites control activities (i.e., mowing). The fence was constructed of four-foot high construction fence secured with seven-foot wooden stakes. In addition to the construction fence, two strands of bailing wire were strung above the construction fence to deter deer from entering the fenced areas. The fence will be maintained until the planted trees and shrubs become established, which is estimated to be two full growing seasons.

Amec's wetland scientist conducted a site visit with CH2M Hill-OMI on September 18, 2012 to assess the survivorship of shrubs and trees. An inventory of each planting area (i.e., Area A through Area F) was conducted during the site visit and the dead shrub and tree species were tallied. Four (4) dead trees and fifteen (15) dead shrubs were observed. Based on the total number of trees and shrubs planted (40 and 114, respectively) the survivorship for trees is 90% and the survivorship for shrubs is 87%. The survivorship by species by Area is presented in Table 3.

The trees and shrubs were watered weekly throughout the summer, as drought like conditions prevailed in western New York. Inspections of the site corroborated the drought conditions as the water level in the ponds had never been observed at such low levels. Although the summer was very dry, the primary issue facing the newly planted shrubs and trees survival appears to be browsing by deer, which have clearly impacted several of the planting areas, primarily Area F and Area C, which had the highest number of dead tree and shrub species. The deer managed to overcome the protective measures implemented to keep them away from the newly planted shrubs and trees (i.e., construction fencing topped with wire). Deer were able to push the fence down in several areas and gain access to the newly planted shrubs and trees. Even though browsing has occurred, the majority of affected trees and shrubs have shown new leaf growth at the base of the stems and live stem and terminal buds were observed.

### **2.6.3 Wetland Mitigation Area Permit Closure**

A letter report was prepared by Amec on behalf of Honeywell detailing the completion of the required corrective actions and submitted to the USACE on September 28, 2012 with copy to the NYSDEC (Amec, 2012). The following information was provided in the letter report:

- Photo documentation of the completion of the corrective actions including mowing and herbicide treatments of phragmites, the placement of coarse woody debris, and the tree and shrub plantings;
- Documentation of invasive plants species (i.e., phragmites) and a comparison of pre-existing conditions to those following mowing and herbicide application;
- Documentation of survivorship of tree and shrub plantings; and
- Documentation of current wetland functions and values the wetland mitigation is providing which includes observations of wildlife and wildlife use of the wetland.

The required mitigation wetland area corrective action activities have been completed and are documented in this report and supporting attachments. The corrective actions included two events of mowing and herbicide treatments of phragmites, the placement of coarse woody debris, tree and shrub planting, and a site visit to document the required survivorship of the woody buffer plantings. To achieve the restoration goal, the Corps of

Engineers required an 85% survivorship of each planted vegetative layer (i.e., 85% shrub survival and 85% tree survival). On September 18, 2012, survivorship was documented by Amec's wetland scientist to be 87% for shrubs and 90% for trees; therefore, the established wetland restoration goal of greater than 85% survivorship has been satisfied.

A visual inspection of the treatment areas that were mowed and where herbicide was applied indicated that this corrective action is having a positive effect on controlling the phragmites growing in these areas. The phragmites within the areas of either mowing or herbicide treatment have not flowered this season, are stunted as compared to untreated phragmites growing offsite, and their areal extent has been reduced. The attached photographs show areas of stressed and dying phragmites that were treated with herbicide in August 2012. Phragmites within the areas of mowing exhibit similar characteristics.

Observations made by Amec's wetland scientist during the September 2012 site visit indicated that the mitigation wetland continues to provide a high degree of wetland functions and values. Deer, including a large buck and three does, were observed in the mitigation wetland while conducting the tree and shrub survivorship survey, mallard ducks and Canada geese were observed feeding in the ponded areas of the wetland, and turtles, turtle trails, and frogs were observed in the ponds. Muskrats or muskrat dens were not observed during this site visit.

To ensure adequate survival of the shrub/tree islands, watering of the shrubs and trees will be continued should drought like conditions persist for the next growing season in 2013. Additional bracing (i.e., additional fence posts) will be installed to strengthen the fencing so that deer cannot easily push it down and gain access to the planting areas. The fence will be maintained for at least two more growing seasons or until the shrubs and trees have matured and can survive browsing by deer.

Based upon the positive results of the wetland mitigation area corrective action activities presented herein, the requirements for closure of the Wetland Permit have been achieved; therefore, further mitigation, monitoring, or reporting activities in accordance with the Wetland Permit will not be conducted. Watering of the plants as may be required due to drought conditions and strengthening of the fence to protect against deer browsing as described above will be included with site operation and maintenance activities.

In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.

### **3.0 RESULTS OF 2012 OM&M ACTIVITIES**

As discussed previously, OMI completed the 2012 OM&M activities at the site and the annual groundwater sampling. The following sections summarize the results of OMI's activities.

#### **3.1 BSA Discharge Monitoring**

As required under the BSA discharge permit, samples of the system effluent were collected from the lift station by OMI on a semi-annual basis in April and October of 2012. Samples collected were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. OMI prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring of discharge water to the BSA. All sampling results were within the BSA permit limits. These reports were sent to the BSA and NYSDEC on a semi-annual basis (Appendix B).

Semi-annual sampling will continue in 2013 as required under the new BSA discharge permit (Permit No. 12-12-BU98) issued on October 10, 2012, and effective December 1, 2012, with the semi-annual sampling events anticipated to be conducted during the months of April and September 2013.

#### **3.2 Groundwater Monitoring**

The 2012 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. The results of these activities are described in the following subsections.

##### **3.2.1 Quarterly Water Level Measurements**

Groundwater levels in site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. Copies of the tables that show the quarterly water level measurements for 2012 are included in Appendix C. Copies of tables that summarize the quarterly groundwater elevations for 2012 are included in Appendix D. The groundwater elevations were used to prepare the quarterly groundwater contour maps for 2012, which are presented in Appendix E. Based on the groundwater elevation data, it is concluded that groundwater flowing toward the toe of the Alltift landfill is being collected by the groundwater capture trench system, as intended by the system's design.

### 3.2.2 Groundwater Sampling

Groundwater sampling was conducted at the site in August 2012 in accordance with the OM&M Manual (Parsons, 2006). The analytical laboratory report for the September 2012 groundwater sampling event is provided as Appendix F.

The analytical results for the groundwater sampling event in September 2012 are summarized on Table 1. During the September 2012 sampling event, concentrations of chromium, iron, manganese, benzene, chlorobenzene, and 4-chloroaniline were detected in one or more samples of the leachate collection system.

Chromium was detected above the NYSDEC Class GA (groundwater) standard of 0.05 micrograms per liter ( $\mu\text{g/L}$ ) in the Sumps 1 through 4 composite sample at a concentration of 0.22  $\mu\text{g/L}$ .

Iron was detected above the groundwater standard of 0.3 milligrams per liter ( $\text{mg/L}$ ) in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (2.6 and 11.3  $\text{mg/L}$ , respectively).

Manganese was detected above the groundwater standard of 0.3  $\text{mg/L}$  in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (5.7 and 3.8  $\text{mg/L}$ , respectively).

Benzene was detected at a concentration of 22  $\mu\text{g/L}$ , above the groundwater standard of 1  $\mu\text{g/L}$ , in the grab sample from Sump 2.

Chlorobenzene was detected above the groundwater standard of 5  $\mu\text{g/L}$  in samples collected from Sump 1, 2, and 4 (11, 150, and 11  $\mu\text{g/L}$ , respectively).

4-chloroaniline was detected above the groundwater standard of 5  $\mu\text{g/L}$  in the Sumps 1 through 4 composite sample at a concentration of 11  $\mu\text{g/L}$ .

Based on a comparison of detections in the sump samples to detections in the background well (MW-2), it does not appear that contaminants of concern are migrating onto the site. Concentrations of benzene, chlorobenzene, and 4-chloroaniline were not detected in MW-2. Iron was the only analyte detected in MW-2 at a concentration exceeding groundwater standards. No PCBs or pesticides were detected in any of the

samples collected from this event or from previous events. The 2012 groundwater monitoring results are consistent with the results from prior groundwater monitoring events.

### **3.3 Surface Water Measurements**

Surface water level measurements were collected on January 27, 2012, April 5, 2012, August 2, 2012, and October 5, 2012 from a weir structure located at the north end (i.e., outlet end) of Pond A. The top of the concrete weir has an elevation measurement point of 580.26 feet. The water level was measured as 6 inches below the top of the concrete weir on January 27, 2012, and at 12 inches below the top of the weir during the three subsequent measurements.

### **3.4 Landfill gas monitoring**

Landfill gas monitoring was conducted on a quarterly basis in 2012. During each event the gas vents (GV-1, GV-2 and GV-3), the four sump locations (Sump 1 through Sump 4), and four ground monitoring locations were monitored. The four ground monitoring locations were:

- Ground 1 - Northwest corner of landfill
- Ground 2 – West side of landfill
- Ground 3 – Southeast corner of landfill
- Ground 4 – Northeast corner of landfill

The gas vents were monitored for percent of the Lower Explosive Limit (LEL) of Methane, Methane, Oxygen, and Carbon Dioxide (See Table 2).

During landfill gas monitoring in 2012, a percentage of the LEL of methane gas was detected in all three monitoring gas vents GV-1, GV-2, and GV-3, all four ground monitoring locations, and Sump #2 during at least one quarterly monitoring event. The landfill gas monitoring data is summarized on Table 2.

### **3.5 Site Inspections**

Quarterly site inspections were performed by OMI on February 28, June 6, September 18, and November 20, 2012. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The wetlands, groundwater monitoring wells, drainage system,

gas vents, and landfill cap were visually inspected. Copies of the completed inspection checklists are provided in Appendix G.

A representative of the NYSDEC participated in the first, second and third quarter inspections. These inspections indicated that the site has a substantial vegetative cover and that the surface drainage system is in good condition. The lack of sediment buildup, ponded water, uncontrolled runoff, or slope instability indicates that the drainage system is adequate and operational. The access road is in good condition. The condition of the perimeter fence, gates, locks, and signs are sufficient to restrict access. The integrity of the groundwater monitoring wells, piezometers, and sumps were verified during the inspections. More specific information regarding the quarterly inspections are provided in the subsections below.

### **3.5.1 February 28, 2012 Inspection**

The integrity of the cap was acceptable during the inspection. The condition the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were in acceptable condition. One gas vent, GV-2, was damaged apparently due to high winds and required replacement.

### **3.5.2 June 6, 2012 Inspection**

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition. One gas vent, GV-1, was damaged apparently due to high winds and required replacement.

### **3.5.3 September 18, 2012 Inspection**

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

#### **3.5.4 November 20, 2012 Inspection**

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were developed based on the data collected during the 2012 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Wetland Mitigation Area corrective actions identified in 2011 were completed in 2012. A letter report was prepared by Amec on behalf of Honeywell detailing the completion of the required corrective actions and submitted to the USACE on September 28, 2012 with copy to the NYSDEC (Amec, 2012). In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during 2012 OM&M period:

- Concentrations of PCBs and pesticides have not been detected in groundwater samples collected at the site since monitoring activities began in 2006. Therefore, the sampling and analysis plan will be revised to remove these analytes from the annual groundwater monitoring requirements.
- BSA Discharge Monitoring – in accordance with the new BSA permit (Permit No. 12-12-BU98), discharge monitoring will be conducted on a semi-annual basis during the months of April and October in 2013, with reports issued to BSA and copied to the NYSDEC.
- No further mitigation, monitoring, or reporting activities associated with the Wetland Mitigation Area are required. However, watering of the plants associated with the woody buffer will continue on an as needed basis if required due to drought conditions and maintenance of the protective snow fence will be conducted to protect against deer browsing.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2013 from the same monitoring points (used during prior monitoring events).

Groundwater monitoring results will be reported in the next annual Periodic Review Report (PRR) submittal.

- Water Level Measurements – Quarterly water level measurements will be collected in 2013 from site monitoring wells, piezometers, and sumps, consistent with the requirements presented in Table 2.2 of the OM&M Manual (Parsons, 2006). Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – in conjunction with the site inspections, measurements of the lower explosive limit and of the percentage of methane gas will continue to be collected on a quarterly basis from gas vents GV-1, GV-2, GV-3, from four sump locations, and from four ground surface locations at the landfill perimeter.
- Surface Water Level Measurements – in conjunction with the site inspections, surface water levels will continue to be collected on a quarterly basis, using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2013.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed, during 2013.
- The next PRR submittal, to include the annual OM&M report, will be completed and submitted to NYSDEC by the end of the 1<sup>st</sup> quarter 2013.

## 5.0 REFERENCES

NYSDEC, 1997. Order on Consent between AlliedSignal, Inc. and NYSDEC, Index #B9-87-194, #B9-0358-91-2, Site Codes #9515054 and 915046B. December 1997.

USACE, 2004. March 24, 2004, Application No. 98-976-0162(0), Nationwide Permit No. (38) as Published in the Federal Register, Volume 67, No. 10, on Tuesday, January 15, 2002, signed by Gary E. McDannell.

Parsons, 2006. Operations, Maintenance, and Monitoring Manual for Alltift Landfill Site, NYSDEC Site No. 9-15-054 and Ramco Steel Site, NYSDEC Site No. 9-15-046B, Buffalo, New York. March 2006.

NYSDEC, 2009. September 2, 2009, Alltift Landfill/Ramco Steel, Site Nos. 9-15-054/915046B, Buffalo (c), Erie County, signed by Maurice F. Moore.

BSA, 2009. December 1, 2009, Buffalo Pollutant Discharge Elimination System (BPDES) Permit #09-11-BU098, Authorization to Discharge, Alltift Landfill/Ramco Steel Remediation Sites, Buffalo, New York.

Mactec, 2011a. May 12, 2011, Work Plan for Wetland Mitigation Monitoring “Year 5” for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.

Mactec, 2011b. July 1, 2011, Annual Wetland Mitigation Report “Year 5 of 5” for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.

Amec, 2011. December 22, 2011, Work Plan – Corrective Action Activities Mitigation Wetland Area, Permit Application No. 98-976-0162(0), Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and John M. Scrabis.

Amec, 2012. September 28, 2012, Corrective Action Completion Report, Wetland Mitigation Area – Permit 1998-9760162, Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and Daniel Forlastro.

## TABLES

TABLE 1  
Summary of Groundwater Analytical Results -2012  
2012 Annual OM&M Report  
Alltift Landfill /Ramco Steel Site

| Parameter Name      | Units | NYSDEC Class GA Standards | MW-2-091312 | Sump 1-091212 | Sump 2-091212 | Sump 3-091212 | Sump 4-091212 | FDUP-091212 (Sump 4) | Sump 1-4 Comp-091212 |
|---------------------|-------|---------------------------|-------------|---------------|---------------|---------------|---------------|----------------------|----------------------|
|                     |       |                           | 9/13/2012   | 9/12/2012     | 9/12/2012     | 9/12/2012     | 9/12/2012     | 9/12/2012            | 9/12/2012            |
| Metals (Dissolved)  |       |                           |             |               |               |               |               |                      |                      |
| ANTIMONY            | mg/L  | 0.003                     | 0.00040 J   |               |               |               | 0.00073 J     | 0.00053 J            | 0.00077 J            |
| ARSENIC             | mg/L  | 0.025                     | 0.0026      |               |               |               | 0.0119 B      | 0.0141 B             | 0.0179 B             |
| CADMIUM             | mg/L  | 0.005                     | 0.00023 JB  |               |               |               | 0.00023 JB    | 0.00021 JB           | 0.00022 JB           |
| CHROMIUM            | mg/L  | 0.05                      | 0.0029 J    |               |               |               | 0.0033 J      | 0.0026 J             | 0.22                 |
| IRON                | mg/L  | 0.3                       | 0.73        |               |               |               | 2.6           | 6.2                  | 11.3                 |
| LEAD                | mg/L  | 0.025                     | 0.0037 J    |               |               |               | 0.0050 U      | 0.0050 U             | 0.023                |
| MANGANESE           | mg/L  | 0.3                       | 0.24        |               |               |               | 5.7           | 4.6                  | 3.8                  |
| MERCURY             | mg/L  | 0.0007                    | 0.0002 U    |               |               |               | 0.00020 U     | 0.00020 U            | 0.00020 U            |
| Pesticides          |       |                           |             |               |               |               |               |                      |                      |
| 4,4'-DDE            | ug/L  | 0.2                       | ND          |               |               |               | 0.047 U       | 0.047 U              | 0.047 U              |
| 4,4'-DDD            | ug/L  | 0.3                       | ND          |               |               |               | 0.047 U       | 0.047 U              | 0.047 U              |
| PCBs                |       |                           |             |               |               |               |               |                      |                      |
| AROCLOR-1016        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1221        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1232        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1242        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1248        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1254        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| AROCLOR-1260        | ug/L  | 0.09                      | 0.057 U     |               |               |               | 0.057 U       | 0.057 U              | 0.057 U              |
| VOCs                |       |                           |             |               |               |               |               |                      |                      |
| BENZENE             | ug/L  | 1                         | 1.0 U       | 5.0 U         | 22            | 5.0 U         | 5.0 U         | 5.0 U                |                      |
| CHLOROBENZENE       | ug/L  | 5                         | 1.0 U       | 11            | 150           | 5.0 U         | 11            | 40                   |                      |
| ETHYLBENZENE        | ug/L  | 5                         | 1.0 U       | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                |                      |
| XYLENES, TOTAL      | ug/L  | 5                         | 2.0 U       | 10 U          | 10 U          | 10 U          | 10 U          | 10 U                 |                      |
| 1,2-DICHLOROBENZENE | ug/L  | 3                         | 1.0 U       | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                |                      |
| 1,4-DICHLOROBENZENE | ug/L  | 3                         | 1.0 U       | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U         | 5.0 U                |                      |
| SVOCs               |       |                           |             |               |               |               |               |                      |                      |
| 4-CHLOROANILINE     | ug/L  | 5                         | 4.8 U       |               |               |               | 4.7 U         | 4.7 U                | 11                   |
| NAPHTHALENE         | ug/L  | 10                        | 4.8 U       |               |               |               | 4.7 U         | 4.7 U                | 4.8 U                |

Note:  
Bold - Detected during Laboratory Analysis  
J - Analyte Detected Below Reporting Limit  
B - Compound Was Found in the Blank and Sample  
U - Analyte not detected  
DIL - Dilution Required for Analysis  
E - Analyzed using E624/E625 Method  
ND - Not Detected at the Reporting Limit  
Shading indicates exceedance of NYSDEC Class GA Standard

**TABLE 2**  
**Quarterly Landfill Gas Monitoring Data - 2012**  
 2012 Annual OM Report  
 Alltift Landfill/Ramco Steel Site

| Location: | First Quarter - 1/27/2012 |                 |                |                     | Second Quarter - 4/5/2012 |                 |                |                     | Third Quarter - 8/2/2012 |                 |                |                     | Fourth Quarter - 10/5/2012 |                 |                |                     |
|-----------|---------------------------|-----------------|----------------|---------------------|---------------------------|-----------------|----------------|---------------------|--------------------------|-----------------|----------------|---------------------|----------------------------|-----------------|----------------|---------------------|
|           | CH <sub>4</sub>           | CO <sub>2</sub> | O <sub>2</sub> | LEL CH <sub>4</sub> | CH <sub>4</sub>           | CO <sub>2</sub> | O <sub>2</sub> | LEL CH <sub>4</sub> | CH <sub>4</sub>          | CO <sub>2</sub> | O <sub>2</sub> | LEL CH <sub>4</sub> | CH <sub>4</sub>            | CO <sub>2</sub> | O <sub>2</sub> | LEL CH <sub>4</sub> |
| GV-1      | 0.1%                      | 0.1%            | 21.3%          | 0.001%              | 0.0%                      | 0.1%            | 21.3%          | 0.000%              | 0.0%                     | 0.1%            | 20.6%          | 0.001%              | 0.0%                       | 0.1%            | 20.8%          | 0.001%              |
| GV-2      | 0.0%                      | 0.1%            | 21.3%          | 0.002%              | 0.0%                      | 0.1%            | 21.3%          | 0.000%              | 0.0%                     | 0.1%            | 20.5%          | 0.001%              | 3.2%                       | 1.0%            | 18.8%          | <b>0.053%</b>       |
| GV-3      | 0.0%                      | 0.1%            | 21.3%          | 0.000%              | 0.0%                      | 0.1%            | 21.3%          | 0.000%              | 0.0%                     | 0.1%            | 20.4%          | 0.000%              | 0.0%                       | 0.1%            | 20.8%          | 0.001%              |
| Ground #1 | 0.1%                      | 0.1%            | 20.1%          | 0.002%              | 0.0%                      | 0.2%            | 20.6%          | 0.000%              | 0.0%                     | 0.0%            | 20.6%          | 0.000%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |
| Ground #2 | 0.0%                      | 0.1%            | 20.9%          | 0.001%              | 0.0%                      | 0.2%            | 20.5%          | 0.000%              | 0.0%                     | 0.0%            | 20.5%          | 0.000%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |
| Ground #3 | 0.0%                      | 0.1%            | 20.8%          | 0.002%              | 0.0%                      | 0.1%            | 20.4%          | 0.000%              | 0.0%                     | 0.0%            | 20.6%          | 0.000%              | 0.0%                       | 0.0%            | 20.8%          | 0.000%              |
| Ground #4 | 0.1%                      | 0.1%            | 20.3%          | 0.001%              | 0.1%                      | 0.1%            | 20.2%          | 0.000%              | 0.0%                     | 0.0%            | 20.5%          | 0.000%              | 0.0%                       | 0.0%            | 20.8%          | 0.001%              |
| Sump #1   | 0.0%                      | 0.1%            | 20.7%          | 0.000%              | 0.0%                      | 0.2%            | 20.8%          | 0.000%              | 0.0%                     | 0.1%            | 20.6%          | 0.000%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |
| Sump #2   | 0.0%                      | 0.1%            | 20.8%          | 0.000%              | 0.0%                      | 0.3%            | 20.5%          | 0.000%              | 0.0%                     | 0.5%            | 20.0%          | 0.002%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |
| Sump #3   | 0.0%                      | 0.1%            | 20.9%          | 0.000%              | 0.0%                      | 0.2%            | 20.5%          | 0.000%              | 0.0%                     | 0.0%            | 20.5%          | 0.000%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |
| Sump #4   | 0.0%                      | 0.1%            | 21.0%          | 0.000%              | 0.0%                      | 0.2%            | 20.2%          | 0.000%              | 0.0%                     | 0.1%            | 20.5%          | 0.000%              | 0.0%                       | 0.0%            | 20.7%          | 0.000%              |

Notes:

**10/5/2012 LEL CH<sub>4</sub> reading for location GV-2 is as recorded in field data logs but may be incorrect based upon corresponding CH<sub>4</sub> value (LEL for CH<sub>4</sub> is 5%).**

Ground 1 - Monitoring location in the Northwest corner of Landfill

Ground 2 - Monitoring location on the West side of Landfill

Ground 3 - Monitoring location in the Southeast corner of Landfill

Ground 4 - Monitoring location in the Northeast corner of Landfill

LEL - Lower Explosive Limit

CH<sub>4</sub> - Methane

CO<sub>2</sub> - Carbon Dioxide

O<sub>2</sub> - Oxygen

**Table 3: Tree/Shrub Planting Areas - Species Lists**  
**Alltitt Landfill and Ramco Steel Sites**  
**NYSDEC Site Nos. 9-15-054 /9-15-046B**  
**Buffalo, New York**

| Tree/Shrub Planting Area: Area A-Type 2 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 5                                       | Elderberry (Sambucus canadensis)       | 4             |
| 5                                       | Alder (Alnus rugosa)                   | 5             |
| 4                                       | Red-osier Dogwood (Cornus stolonifera) | 4             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 4             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Boxelder (Acer nugundo)                | 2             |
| 2                                       | Swamp White Oak (Quercus alba)         | 2             |
| 2                                       | Paper Birch (Betula papyrifera)        | 2             |
| 2                                       | White Pine (Pinus strobus)             | 2             |
| 26                                      | <b>total number of trees/shrubs</b>    | 25            |

| Tree/Shrub Planting Area: Area B-Type 2 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 5                                       | Elderberry (Sambucus canadensis)       | 5             |
| 5                                       | Alder (Alnus rugosa)                   | 5             |
| 5                                       | Red-osier Dogwood (Cornus stolonifera) | 5             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 4             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Boxelder (Acer nugundo)                | 2             |
| 2                                       | Swamp White Oak (Quercus alba)         | 2             |
| 2                                       | Paper Birch (Betula papyrifera)        | 2             |
| 1                                       | Larch (Larix laricina)                 | 1             |
| 26                                      | <b>total number of trees/shrubs</b>    | 26            |

| Tree/Shrub Planting Area: Area C-Type 2 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 6                                       | Red-osier Dogwood (Cornus stolonifera) | 6             |
| 5                                       | Elderberry (Sambucus canadensis)       | 0             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 4             |
| 4                                       | Alder (Alnus rugosa)                   | 4             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Boxelder (Acer nugundo)                | 2             |
| 2                                       | Swamp White Oak (Quercus alba)         | 1             |
| 2                                       | Paper Birch (Betula papyrifera)        | 2             |
| 1                                       | White Pine (Pinus strobus)             | 1             |
| 26                                      | <b>total number of trees/shrubs</b>    | 20            |

| Tree/Shrub Planting Area: Area D-Type 1 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 5                                       | Alder (Alnus rugosa)                   | 5             |
| 5                                       | Elderberry (Sambucus canadensis)       | 5             |
| 5                                       | Red-osier Dogwood (Cornus stolonifera) | 4             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 4             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Larch (Larix laricina)                 | 2             |
| 2                                       | Red Maple (Acer rubrum)                | 2             |
| 2                                       | Black Willow (Salix nigra)             | 2             |
| 25                                      | <b>total number of trees/shrubs</b>    | 24            |

| Tree/Shrub Planting Area: Area E-Type 1 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 6                                       | Alder (Alnus rugosa)                   | 6             |
| 5                                       | Red-osier Dogwood (Cornus stolonifera) | 5             |
| 5                                       | Elderberry (Sambucus canadensis)       | 5             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 4             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Larch (Larix laricina)                 | 0             |
| 2                                       | Red Maple (Acer rubrum)                | 2             |
| 2                                       | Black Willow (Salix nigra)             | 2             |
| 26                                      | <b>total number of trees/shrubs</b>    | 24            |

| Tree/Shrub Planting Area: Area F-Type 1 |                                        |               |
|-----------------------------------------|----------------------------------------|---------------|
| Number                                  |                                        | Number        |
| Planted [a]                             | Species                                | Surviving [b] |
| <b>Shrubs</b>                           |                                        |               |
| 5                                       | Alder (Alnus rugosa)                   | 3             |
| 5                                       | Red-osier Dogwood (Cornus stolonifera) | 4             |
| 5                                       | Elderberry (Sambucus canadensis)       | 3             |
| 4                                       | Blueberry (Vaccinium corymbosum)       | 1             |
| <b>Trees</b>                            |                                        |               |
| 2                                       | Larch (Larix laricina)                 | 2             |
| 2                                       | Red Maple (Acer rubrum)                | 1             |
| 2                                       | Black Willow (Salix nigra)             | 2             |
| 25                                      | <b>total number of trees/shrubs</b>    | 16            |

Notes:

[a] Trees and shrubs planted in June, 2012.

[b] Surviving trees and shrubs tallied in September, 2012.

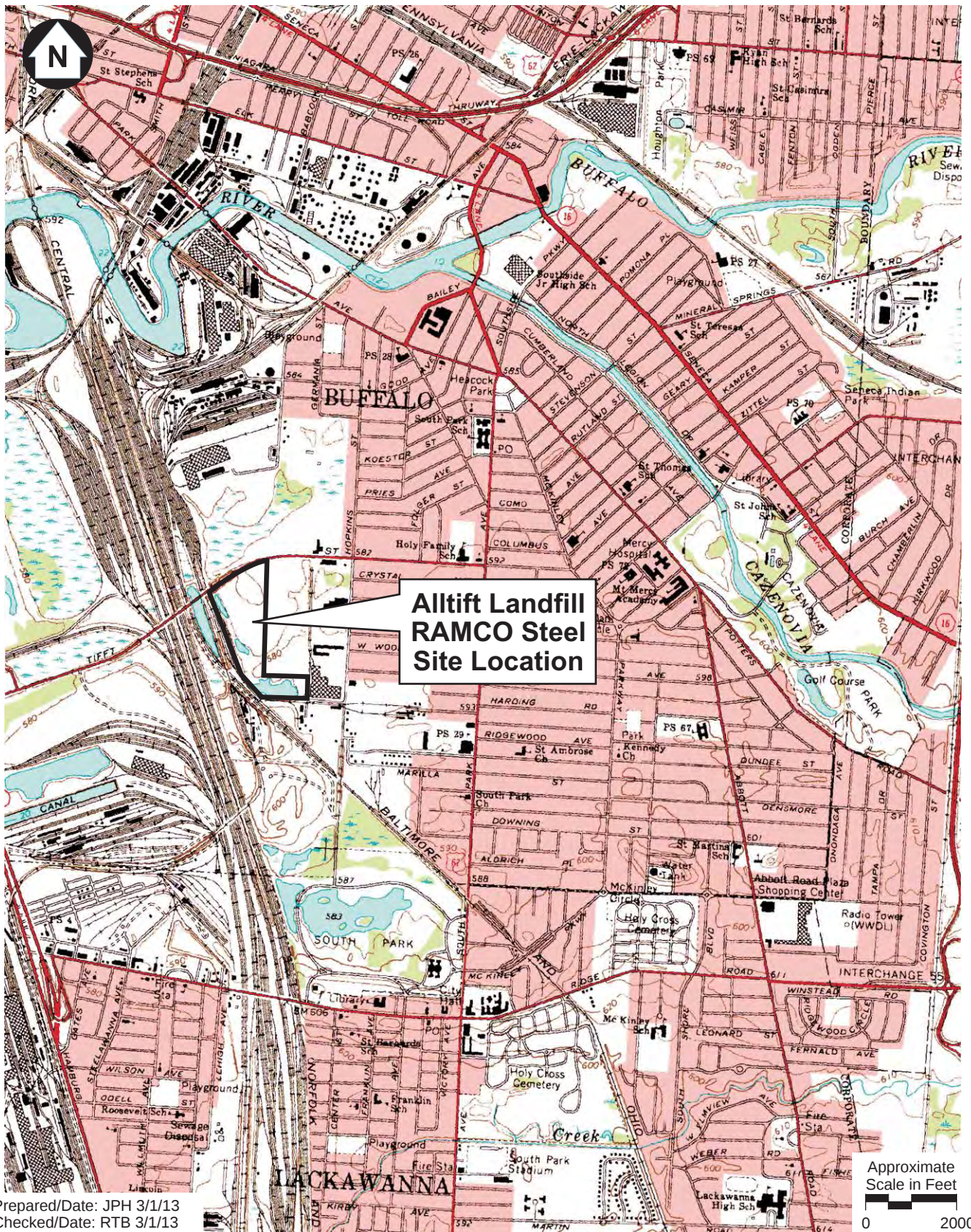
= shading indicates dead shrubs/trees.

**Summary Table:**

| Area                      | Trees     | Shrubs     |
|---------------------------|-----------|------------|
| Area A - Type 2           | 8         | 18         |
| Area B - Type 2           | 7         | 19         |
| Area C - Type 2           | 7         | 19         |
| Area D - Type 1           | 6         | 19         |
| Area E - Type 1           | 6         | 20         |
| Area F - Type 1           | 6         | 19         |
| <b>Total</b>              | <b>40</b> | <b>114</b> |
| Dead Trees/Shrubs         | 4         | 15         |
| <b>Total Trees/Shrubs</b> | <b>40</b> | <b>114</b> |
| Percent Dead              | 10%       | 13%        |
| Percent Surviving         | 90%       | 87%        |

## **APPENDIX A**

### **SITE LOCATION AND CURRENT CONDITIONS SITE PLAN FIGURES**



**Honeywell**

**amec**

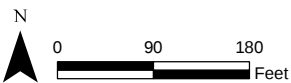
Site Location Map  
Alltiff Landfill/Ramco Steel Site  
Project No. 3410120905  
Figure 1

Document: P:\Projects\Honeywell\O.M and M Team\Allitt Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\MapDocuments\Allitt\_Planning\_Areas\_as\_built\_11x17P.mxd PDF: P:\Projects\Honeywell\O.M and M Team\Allitt Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\Figures\Figure 1 - Current Conditions Site Plan.pdf 3/7/2013 1:31 PM charles.lyman



Legend

- |                                                                                     |                     |                                                                                      |                              |                                                                                       |                              |
|-------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|------------------------------|
|  | Planting Areas      |   | Open Water                   |   | upland, mechanical treatment |
|  | Coarse Woody Debris |  | wetland, herbicide treatment |  | Deep Water Emergent          |
|                                                                                     |                     |  | Wet Meadow Emergent          |                                                                                       |                              |



Prepared/Date: CHL 03/07/13  
Checked/Date: RTB 03/07/13

HONEYWELL



Current Conditions  
Site Plan  
Project 3410120905

Figure 2

## **APPENDIX B**

### **2012 SEMI-ANNUAL DISCHARGE MONITORING REPORTS**



CH2M HILL OMI  
Syracuse Honeywell  
1563 Willis Avenue  
Syracuse, NY 13204  
Tel 315.468.1663  
Fax 315.468.1664

May 4, 2012

Mr. James Overholt  
Buffalo Sewer Authority  
90 West Ferry Street  
Buffalo, New York 14213-1799

Subject: **Alltift Landfill/Ramco Steel Site  
Discharge Monitoring Report  
2012 First Semi-Annual Report  
Permit Number 09-11-BU098**

Dear Mr. Overholt:

Enclosed please find the 2012 First Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 2,249,100 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from September 14, 2011 through April 16, 2012 for a total of 215 days.

A time composite discharge sample was collected from within the pump station on April 16, 2012. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs, composited in the laboratory. The sample for TSS and pH were collected as one sample over an evenly-spaced work day period and composited in the field. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits.

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

**CH2M HILL OMI, INC.**

A handwritten signature in dark ink, appearing to read "John W. Formoza".

John W. Formoza  
Project Manager

QC Review By: Ryan Belcher

cc.: Mr. Rich Galloway (Honeywell)  
Mr. Maurice Moore (NYSDEC)  
Mr. Dennis Sutton (City of Buffalo)

**Table 1**  
**Alltift Landfill/Ramco Steel Site**  
**First Semi-annual Report for 2012**  
**Discharge Monitoring Report**

|                           |                            |
|---------------------------|----------------------------|
| BSA Permit No. 09-11-BU98 |                            |
| Sample Date:              | April 16, 2012             |
| Sample Location:          | Onsite Pump Station to BSA |

| BSA Permit Parameter   | Input Analytical Results |                 |      | Converted Analytical Results |         | BSA Daily Max Discharge Limit |         | Permit Compliance |
|------------------------|--------------------------|-----------------|------|------------------------------|---------|-------------------------------|---------|-------------------|
|                        | Quantity                 | Reporting Limit | Unit | Quantity                     | Unit    | Quantity                      | Unit    |                   |
| pH                     | 7.42                     | NA              | SU   | 7.42                         | SU      | 5.0 - 12.0                    | SU      | Yes               |
| Benzene                | ND                       | 50              | ug/L | ND                           | lbs/day | 0.068                         | lbs/day | Yes               |
| Chlorobenzene          | 48                       | 50              | ug/L | 0.0042                       | lbs/day | 0.148                         | lbs/day | Yes               |
| 4-Chloroaniline        | 7.7                      | 25              | ug/L | 0.0007                       | lbs/day | 0.048                         | lbs/day | Yes               |
| Naphthalene            | ND                       | 25              | ug/L | ND                           | lbs/day | 0.048                         | lbs/day | Yes               |
| Total Suspended Solids | 61.6                     | 4.0             | mg/L | 61.6                         | mg/L    | 250                           | mg/L    | Yes               |
| Total Flow (average)   | 7.26                     |                 | gpm  | 10,461                       | gpd     | 57,600                        | gpd     | Yes               |

| Flow Calculations              | Meter     |           |         |
|--------------------------------|-----------|-----------|---------|
| Initial Reading (pump station) | 1669100   | 9/14/2011 |         |
| Final Reading (pump station)   | 3918200   | 4/16/2012 |         |
| Total Days in Period           |           | 215       |         |
|                                |           |           |         |
| Total Flow for Period          | 2,249,100 |           | gallons |
| Average Flow for Period        |           | 7.26      | gpm     |



**CH2MHILL**  
OMI

CH2M HILL OMI  
Syracuse Honeywell  
1563 Willis Avenue  
Syracuse, NY 13204  
Tel 315.468.1663  
Fax 315.468.1664

October 30, 2012

Mr. James Overholt  
Buffalo Sewer Authority  
90 West Ferry Street  
Buffalo, New York 14213-1799

Subject: **Alltift Landfill/Ramco Steel Site  
Discharge Monitoring Report  
2012 Second Semi-Annual Report  
Permit Number 09-11-BU098**

Dear Mr. Overholt:

Enclosed please find the 2012 Second Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 2,828,200 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from April 16, 2012 through October 5, 2012 for a total of 172 days.

A time composite discharge sample was collected from within the pump station on October 5, 2012. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs, and composited in the laboratory. The sample for TSS and pH were collected as one sample over an evenly-spaced work day period and composited in the field. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits.

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

**CH2M HILL OMI, INC.**

John W. Formoza  
Project Manager

QC Review By: Ryan Belcher (Amec Environment & Infrastructure)

cc.: Mr. Rich Galloway (Honeywell)  
Mr. Maurice Moore (NYSDEC)  
Mr. Dennis Sutton (City of Buffalo)  
Mr. Dan Forlastro (Amec Environment & Infrastructure)

**Table 1**  
**Alltiff Landfill/Ramco Steel Site**  
**Second Semi-annual Report for 2012**  
**Discharge Monitoring Report**

|                           |                            |
|---------------------------|----------------------------|
| BSA Permit No. 09-11-BU98 |                            |
| Sample Date:              | October 5, 2012            |
| Sample Location:          | Onsite Pump Station to BSA |

| BSA Permit Parameter   | Input Analytical Results |                 |      | Converted Analytical Results |         | BSA Daily Max Discharge Limit |         | Permit Compliance |
|------------------------|--------------------------|-----------------|------|------------------------------|---------|-------------------------------|---------|-------------------|
|                        | Quantity                 | Reporting Limit | Unit | Quantity                     | Unit    | Quantity                      | Unit    |                   |
| pH                     | 7.74                     | 0.100           | SU   | 7.74                         | SU      | 5.0 - 12.0                    | SU      | Yes               |
| Benzene                | ND                       | 40              | ug/L | ND                           | lbs/day | 0.068                         | lbs/day | Yes               |
| Chlorobenzene          | 63                       | 40              | ug/L | 0.0086                       | lbs/day | 0.148                         | lbs/day | Yes               |
| 4-Chloroaniline        | 4.2                      | 5.0             | ug/L | 0.0006                       | lbs/day | 0.048                         | lbs/day | Yes               |
| Naphthalene            | ND                       | 5.0             | ug/L | ND                           | lbs/day | 0.048                         | lbs/day | Yes               |
| Total Suspended Solids | 44                       | 4.0             | mg/L | 44.0                         | mg/L    | 250                           | mg/L    | Yes               |
| Total Flow (average)   | 11.42                    |                 | gpm  | 16,443                       | gpd     | 57,600                        | gpd     | Yes               |

| Flow Calculations              | Meter     |           |         |
|--------------------------------|-----------|-----------|---------|
| Initial Reading (pump station) | 3918200   | 4/16/2012 |         |
| Final Reading (pump station)   | 6746400   | 10/5/2012 |         |
| Total Days in Period           |           | 172       |         |
|                                |           |           |         |
| Total Flow for Period          | 2,828,200 |           | gallons |
| Average Flow for Period        |           | 11.42     | gpm     |

## **APPENDIX C**

### **MONTHLY WATER LEVEL MEASUREMENTS –2012**

Altift Landfill  
Buffalo, New York

Piezometer Readings

|       | 12-Jan-12 | 27-Jan-12 | 6-Feb-12 | 28-Feb-12 | 8-Mar-12 | 9-Mar-12 | 5-Apr-12 | 16-Apr-12 | 23-Apr-12 | 27-Apr-12 | 5-Jun-12 | 19-Jun-12 | 27-Jun-12 | 5-Jul-12 | 10-Jul-12 | 26-Jul-12 | 2-Aug-12 | 23-Aug-12 | 13-Sep-12 | 5-Oct-12 | 22-Oct-12 | 31-Oct-12 | 19-Dec-12 |
|-------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|
| PZ-1  |           | 6.20      |          |           |          |          | 7.59     |           |           |           |          |           |           |          |           |           | 6.83     |           |           | 6.95     |           |           |           |
| PZ-2  |           | 4.90      |          |           |          |          | 7.97     |           |           |           |          |           |           |          |           |           | 8.31     |           |           | 8.40     |           |           |           |
| PZ-3  |           | 4.90      |          |           |          |          | 10.05    |           |           |           |          |           |           |          |           |           | 10.53    |           |           | 10.45    |           |           |           |
| PZ-4  |           | 4.43      |          |           |          |          | 6.31     |           |           |           |          |           |           |          |           |           | 6.92     |           |           | 6.95     |           |           |           |
| PZ-5  |           | 4.15      |          |           |          |          | 6.67     |           |           |           |          |           |           |          |           |           | 7.42     |           |           | 7.55     |           |           |           |
| PZ-6  |           | 4.00      |          |           |          |          | 6.85     |           |           |           |          |           |           |          |           |           | 9.73     |           |           | 9.03     |           |           |           |
| PZ-7  |           | 4.30      |          |           |          |          | 7.7      |           |           |           |          |           |           |          |           |           | 8.69     |           |           | 8.80     |           |           |           |
| PZ-8  |           | 3.10      |          |           |          |          | 6.18     |           |           |           |          |           |           |          |           |           | 7.27     |           |           | 7.60     |           |           |           |
| PZ-9  |           | 5.50      |          |           |          |          | 6.78     |           |           |           |          |           |           |          |           |           | 8.85     |           |           | 9.00     |           |           |           |
| PZ-10 |           | 7.27      |          |           |          |          | 8.03     |           |           |           |          |           |           |          |           |           | dry      |           |           | 11.45    |           |           |           |
| PZ-11 |           | 7.00      |          |           |          |          | 7.65     |           |           |           |          |           |           |          |           |           | 9.00     |           |           | 9.65     |           |           |           |
| PZ-12 |           | 7.05      |          |           |          |          | 8.3      |           |           |           |          |           |           |          |           |           | 10.30    |           |           | 10.90    |           |           |           |
| PZ-13 |           | 4.95      |          |           |          |          | 5.99     |           |           |           |          |           |           |          |           |           | 8.31     |           |           | 8.45     |           |           |           |
| PZ-14 |           | dry       |          |           |          |          | dry      |           |           |           |          |           |           |          |           |           | dry      |           |           | dry      |           |           |           |
| PZ-15 |           | 7.43      |          |           |          |          | 7.63     |           |           |           |          |           |           |          |           |           | 8.20     |           |           | 8.50     |           |           |           |
| PZ-16 |           | dry       |          |           |          |          | dry      |           |           |           |          |           |           |          |           |           | dry      |           |           | dry      |           |           |           |

Groundwater Collection Trench Sumps

|        |  |      |  |  |  |  |      |  |      |  |  |  |  |  |  |  |       |  |  |       |  |  |  |
|--------|--|------|--|--|--|--|------|--|------|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|
| GWCT-1 |  | 6.30 |  |  |  |  | 6.28 |  | 6.30 |  |  |  |  |  |  |  | 7.70  |  |  | 7.25  |  |  |  |
| GWCT-2 |  | 4.60 |  |  |  |  | 6.2  |  |      |  |  |  |  |  |  |  | 13.30 |  |  | 12.90 |  |  |  |
| GWCT-3 |  | 4.50 |  |  |  |  | 8.65 |  |      |  |  |  |  |  |  |  | 9.42  |  |  | 9.90  |  |  |  |
| GWCT-4 |  | 4.20 |  |  |  |  | 6.88 |  |      |  |  |  |  |  |  |  | 8.00  |  |  | 8.30  |  |  |  |

Relief Trench Sumps

|       |  |      |  |  |  |  |     |  |  |  |  |  |  |  |  |  |      |  |  |      |  |  |  |
|-------|--|------|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|------|--|--|------|--|--|--|
| GWR-1 |  | 7.90 |  |  |  |  | 8   |  |  |  |  |  |  |  |  |  | 8.35 |  |  | 8.35 |  |  |  |
| GWR-2 |  | 8.00 |  |  |  |  | 8.2 |  |  |  |  |  |  |  |  |  | 8.29 |  |  | 8.30 |  |  |  |

Lift Station

|      |  |       |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |       |  |  |  |
|------|--|-------|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|
| Lift |  | 11.65 |  |  |  |  | 11.42 |  |  |  |  |  |  |  |  |  | 11.38 |  |  | 10.45 |  |  |  |
|------|--|-------|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|

Offsite Background Wells

|      |         |         |         |         |         |         |         |         |         |         |  |  |  |         |         |         |         |         |         |         |  |  |  |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| MW-1 | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) |  |  |  | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) |  |  |  |
| MW-2 |         |         |         |         |         |         |         |         |         |         |  |  |  |         |         |         |         |         |         |         |  |  |  |

Lift Station Totalizer Reading

|            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Flow | 2616600 | 2747000 | 2894500 | 3138600 | 3202800 | 3213600 | 3773600 | 3918200 | 4093600 | 4148000 | 5427300 | 5643200 | 5696800 | 5763500 | 5804700 | 6006500 | 6074200 | 6314900 | 6497300 | 6746400 | 6842700 | 6927300 | 7594600 |
| Delta      |         | 130400  | 147500  | 244100  | 64200   | 10800   | 560000  |         |         |         |         |         | 269500  | 120300  | 107900  | 243000  | 269500  | 308400  |         | 672200  |         |         |         |

Electric Meter

|         |  |  |  |         |  |  |          |  |          |  |          |  |  |  |          |          |          |          |  |          |          |  |  |
|---------|--|--|--|---------|--|--|----------|--|----------|--|----------|--|--|--|----------|----------|----------|----------|--|----------|----------|--|--|
| Current |  |  |  | 523 KWH |  |  | 1565 KWH |  | 2311 KWH |  | 3743 KWH |  |  |  | 4507 KWH | 5066 KWH | 5209 KWH | 5671 KWH |  | 6452 KWH | 6918 KWH |  |  |
| Delta   |  |  |  | 1.29 kw |  |  | 5.8 kw   |  | 2.52 kw  |  |          |  |  |  |          |          |          |          |  |          |          |  |  |

Comments :

Alltift Landfill  
Buffalo, New York

Piezometer Readings

|       | 12-Jan-12 | 27-Jan-12 | 6-Feb-12 | 28-Feb-12 | 8-Mar-12 | 9-Mar-12 | 5-Apr-12 | 16-Apr-12 | 23-Apr-12 | 27-Apr-12 | 5-Jun-12 | 19-Jun-12 | 27-Jun-12 | 5-Jul-12 | 10-Jul-12 | 26-Jul-12 | 2-Aug-12 | 23-Aug-12 | 13-Sep-12 | 5-Oct-12 | 22-Oct-12 | 31-Oct-12 | 19-Dec-12 |
|-------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|
| PZ-1  |           | 6.20      |          |           |          |          | 7.59     |           |           |           |          |           |           |          |           |           | 6.83     |           |           | 6.95     |           |           |           |
| PZ-2  |           | 4.90      |          |           |          |          | 7.97     |           |           |           |          |           |           |          |           |           | 8.31     |           |           | 8.40     |           |           |           |
| PZ-3  |           | 4.90      |          |           |          |          | 10.05    |           |           |           |          |           |           |          |           |           | 10.53    |           |           | 10.45    |           |           |           |
| PZ-4  |           | 4.43      |          |           |          |          | 6.31     |           |           |           |          |           |           |          |           |           | 6.92     |           |           | 6.95     |           |           |           |
| PZ-5  |           | 4.15      |          |           |          |          | 6.67     |           |           |           |          |           |           |          |           |           | 7.42     |           |           | 7.55     |           |           |           |
| PZ-6  |           | 4.00      |          |           |          |          | 6.85     |           |           |           |          |           |           |          |           |           | 9.73     |           |           | 9.03     |           |           |           |
| PZ-7  |           | 4.30      |          |           |          |          | 7.7      |           |           |           |          |           |           |          |           |           | 8.69     |           |           | 8.80     |           |           |           |
| PZ-8  |           | 3.10      |          |           |          |          | 6.18     |           |           |           |          |           |           |          |           |           | 7.27     |           |           | 7.60     |           |           |           |
| PZ-9  |           | 5.50      |          |           |          |          | 6.78     |           |           |           |          |           |           |          |           |           | 8.85     |           |           | 9.00     |           |           |           |
| PZ-10 |           | 7.27      |          |           |          |          | 8.03     |           |           |           |          |           |           |          |           |           | dry      |           |           | 11.45    |           |           |           |
| PZ-11 |           | 7.00      |          |           |          |          | 7.65     |           |           |           |          |           |           |          |           |           | 9.00     |           |           | 9.65     |           |           |           |
| PZ-12 |           | 7.05      |          |           |          |          | 8.3      |           |           |           |          |           |           |          |           |           | 10.30    |           |           | 10.90    |           |           |           |
| PZ-13 |           | 4.95      |          |           |          |          | 5.99     |           |           |           |          |           |           |          |           |           | 8.31     |           |           | 8.45     |           |           |           |
| PZ-14 |           | dry       |          |           |          |          | dry      |           |           |           |          |           |           |          |           |           | dry      |           |           | dry      |           |           |           |
| PZ-15 |           | 7.43      |          |           |          |          | 7.63     |           |           |           |          |           |           |          |           |           | 8.20     |           |           | 8.50     |           |           |           |
| PZ-16 |           | dry       |          |           |          |          | dry      |           |           |           |          |           |           |          |           |           | dry      |           |           | dry      |           |           |           |

Groundwater Collection Trench Sumps

|        |  |      |  |  |  |  |      |  |  |  |  |  |  |  |  |  |       |  |  |       |  |  |  |
|--------|--|------|--|--|--|--|------|--|--|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|
| GWCT-1 |  | 6.30 |  |  |  |  | 6.28 |  |  |  |  |  |  |  |  |  | 7.70  |  |  | 7.25  |  |  |  |
| GWCT-2 |  | 4.60 |  |  |  |  | 6.2  |  |  |  |  |  |  |  |  |  | 13.30 |  |  | 12.90 |  |  |  |
| GWCT-3 |  | 4.50 |  |  |  |  | 8.65 |  |  |  |  |  |  |  |  |  | 9.42  |  |  | 9.90  |  |  |  |
| GWCT-4 |  | 4.20 |  |  |  |  | 6.88 |  |  |  |  |  |  |  |  |  | 8.00  |  |  | 8.30  |  |  |  |

Relief Trench Sumps

|       |  |      |  |  |  |  |     |  |  |  |  |  |  |  |  |  |      |  |  |      |  |  |  |
|-------|--|------|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|------|--|--|------|--|--|--|
| GWR-1 |  | 7.90 |  |  |  |  | 8   |  |  |  |  |  |  |  |  |  | 8.35 |  |  | 8.35 |  |  |  |
| GWR-2 |  | 8.00 |  |  |  |  | 8.2 |  |  |  |  |  |  |  |  |  | 8.29 |  |  | 8.30 |  |  |  |

Lift Station

|      |  |       |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |       |  |  |  |
|------|--|-------|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|
| Lift |  | 11.65 |  |  |  |  | 11.42 |  |  |  |  |  |  |  |  |  | 11.38 |  |  | 10.45 |  |  |  |
|------|--|-------|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|-------|--|--|--|

Offsite Background Wells

|      |         |         |         |         |         |         |         |         |         |         |  |  |         |         |         |         |         |         |  |         |  |  |  |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|---------|---------|---------|---------|---------|---------|--|---------|--|--|--|
| MW-1 | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) |  |  | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) | n/a (2) |  | n/a (2) |  |  |  |
| MW-2 |         |         |         |         |         |         |         |         |         |         |  |  |         |         |         |         |         |         |  |         |  |  |  |

Lift Station Totalizer Reading

|            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Flow | 2616600 | 2747000 | 2894500 | 3138600 | 3202800 | 3213600 | 3773600 | 3918200 | 4093600 | 4148000 | 5427300 | 5643200 | 5696800 | 5763500 | 5804700 | 6006500 | 6074200 | 6314900 | 6497300 | 6746400 | 6842700 | 6927300 | 7594600 |
| Delta      |         | 130400  | 147500  | 244100  | 64200   | 10800   | 560000  |         |         |         |         |         | 269500  | 120300  | 107900  | 243000  | 269500  | 308400  |         | 672200  |         |         |         |

Electric Meter

|         |  |  |  |         |  |  |          |  |          |  |          |  |  |  |          |          |          |          |  |          |          |  |  |
|---------|--|--|--|---------|--|--|----------|--|----------|--|----------|--|--|--|----------|----------|----------|----------|--|----------|----------|--|--|
| Current |  |  |  | 523 KWH |  |  | 1565 KWH |  | 2311 KWH |  | 3743 KWH |  |  |  | 4507 KWH | 5066 KWH | 5209 KWH | 5671 KWH |  | 6452 KWH | 6918 KWH |  |  |
| Delta   |  |  |  | 1.29 kw |  |  | 5.8 kw   |  | 2.52 kw  |  |          |  |  |  |          |          |          |          |  |          |          |  |  |

Comments :

## **APPENDIX D**

### **QUARTERLY GROUNDWATER ELEVATIONS –2012**

**SUMMARY OF 2012 QUARTERLY GROUNDWATER ELEVATIONS  
ALLTIFT LANDFILL SITE  
BUFFALO, NEW YORK**

|                                            |                   |                         | 1/27/2012      |                        | 4/5/2012       |                        | 8/2/2012       |                        | 10/5/2012      |                        |
|--------------------------------------------|-------------------|-------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|
| MONITORING POINT                           | TOTAL DEPTH (FT.) | TOP OF CASING ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION |
| <b>PIEZOMETERS</b>                         |                   |                         |                |                        |                |                        |                |                        |                |                        |
| PZ-1                                       | 16.8              | 585.01                  | 6.20           | 578.81                 | 7.59           | 577.42                 | 6.83           | 578.18                 | 6.95           | 578.06                 |
| PZ-2                                       | 16.9              | 584.96                  | 4.90           | 580.06                 | 7.97           | 576.99                 | 8.31           | 576.65                 | 8.40           | 576.56                 |
| PZ-3                                       | 16.9              | 585.05                  | 4.90           | 580.15                 | 10.05          | 575.00                 | 10.53          | 574.52                 | 10.45          | 574.60                 |
| PZ-4                                       | 16.6              | 585.79                  | 4.43           | 581.36                 | 6.31           | 579.48                 | 6.92           | 578.87                 | 6.95           | 578.84                 |
| PZ-5                                       | 16.9              | 584.52                  | 4.15           | 580.37                 | 6.67           | 577.85                 | 7.42           | 577.10                 | 7.55           | 576.97                 |
| PZ-6                                       | 17.8              | 584.74                  | 4.00           | 580.74                 | 6.85           | 577.89                 | 9.73           | 575.01                 | 9.03           | 575.71                 |
| PZ-7                                       | 20.0              | 584.99                  | 4.30           | 580.69                 | 7.7            | 577.29                 | 8.69           | 576.30                 | 8.80           | 576.19                 |
| PZ-8                                       | 20.7              | 584.48                  | 3.10           | 581.38                 | 6.18           | 578.30                 | 7.27           | 577.21                 | 7.60           | 576.88                 |
| PZ-9                                       | 15.1              | 586.86                  | 5.50           | 581.36                 | 6.78           | 580.08                 | 8.85           | 578.01                 | 9.00           | 577.86                 |
| PZ-10                                      | 11.5              | 589.41                  | 7.27           | 582.14                 | 8.03           | 581.38                 | dry            | <589.41                | 11.45          | 577.96                 |
| PZ-11                                      | 19.5              | 594.72                  | 7.00           | 587.72                 | 7.65           | 587.07                 | 9.00           | 585.72                 | 9.65           | 585.07                 |
| PZ-12                                      | 21.8              | 592.78                  | 7.05           | 585.73                 | 8.3            | 584.48                 | 10.30          | 582.48                 | 10.90          | 581.88                 |
| PZ-13                                      | 22.5              | 589.04                  | 4.95           | 584.09                 | 5.99           | 583.05                 | 8.31           | 580.73                 | 8.45           | 580.59                 |
| PZ-14                                      | 55.0              | 619.11                  | dry            | *                      | dry            | *                      | dry            | *                      | dry            | *                      |
| PZ-15                                      | 17.0              | 588.79                  | 7.43           | 581.36                 | 7.63           | 581.16                 | 8.20           | 580.59                 | 8.50           | 580.29                 |
| PZ-16                                      | 66.5              | 629.30                  | dry            | **                     | dry            | **                     | dry            | **                     | dry            | **                     |
| <b>BACKGROUND WELLS</b>                    |                   |                         |                |                        |                |                        |                |                        |                |                        |
| MW-1                                       | 20.4              | 585.22                  | NM             | ***                    | NM             | ***                    | NM             | ***                    | NM             | ***                    |
| MW-2                                       | 17.0              | 586.67                  | NM             | NM                     | NM             | NM                     | NM             | NM                     | NM             | NM                     |
| <b>GROUNDWATER COLLECTION TRENCH SUMPS</b> |                   |                         |                |                        |                |                        |                |                        |                |                        |
| S-1                                        | 17.2              | 585.19                  | 6.30           | 578.89                 | 6.28           | 578.91                 | 7.70           | 577.49                 | 7.25           | 577.94                 |
| S-2                                        | 24.8              | 585.45                  | 4.60           | 580.85                 | 6.2            | 579.25                 | 13.30          | 572.15                 | 12.90          | 572.55                 |
| S-3                                        | 17.3              | 585.25                  | 4.50           | 580.75                 | 8.65           | 576.60                 | 9.42           | 575.83                 | 9.90           | 575.35                 |
| S-4                                        | 17.8              | 585.00                  | 4.20           | 580.80                 | 6.88           | 578.12                 | 8.00           | 577.00                 | 8.30           | 576.70                 |

\*PZ-14 riser pipe damaged; no depth to water level measurement possible. Tape stops at 10.29 feet below top of casing.

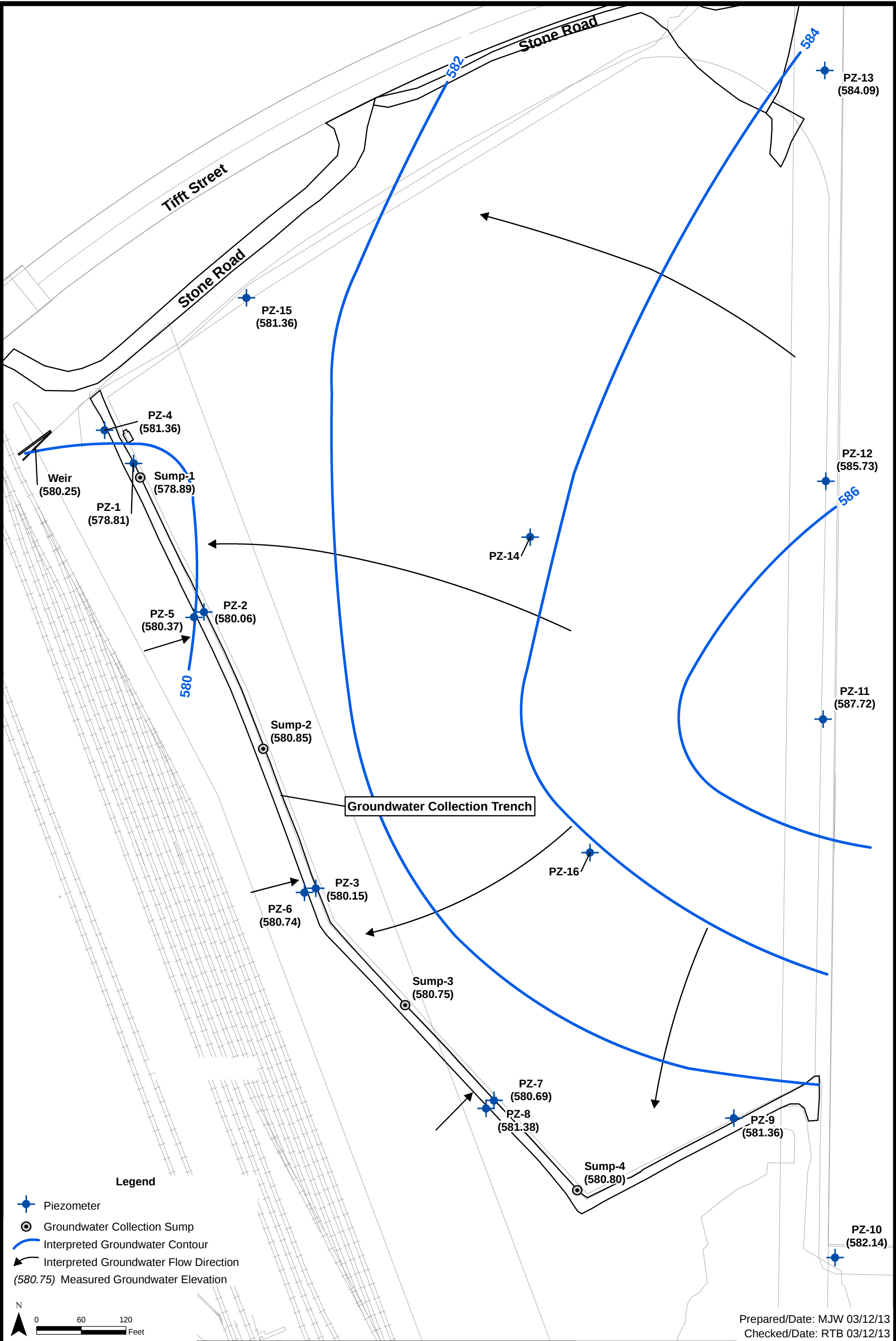
\*\*PZ-16: Tape stops at 32.50 feet below top of casing; indicates that the well is dry at this level.

\*\*\*Background well MW-1 removed or paved over by property owner sometime after July 2006 site visit.

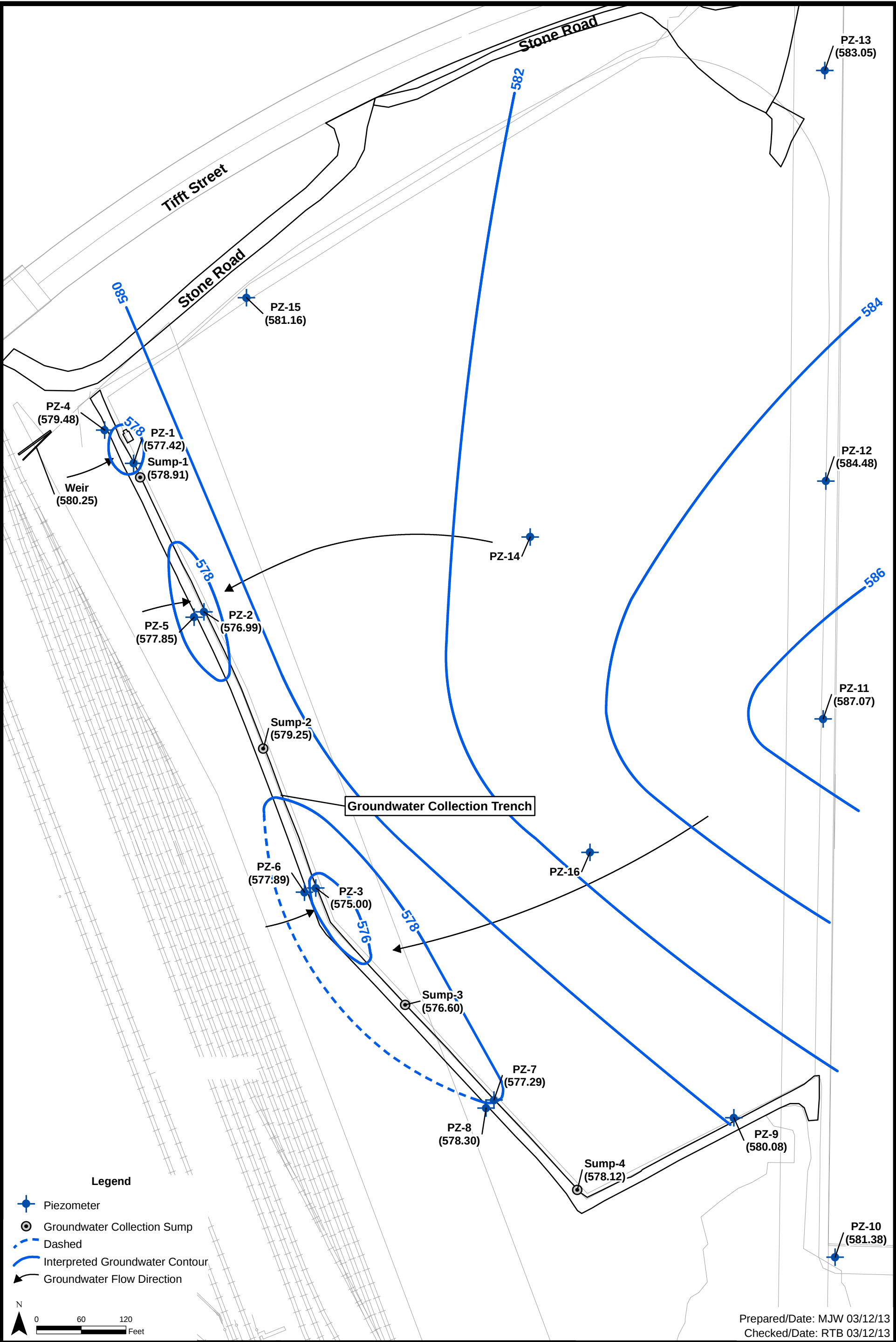
NM - Not measured

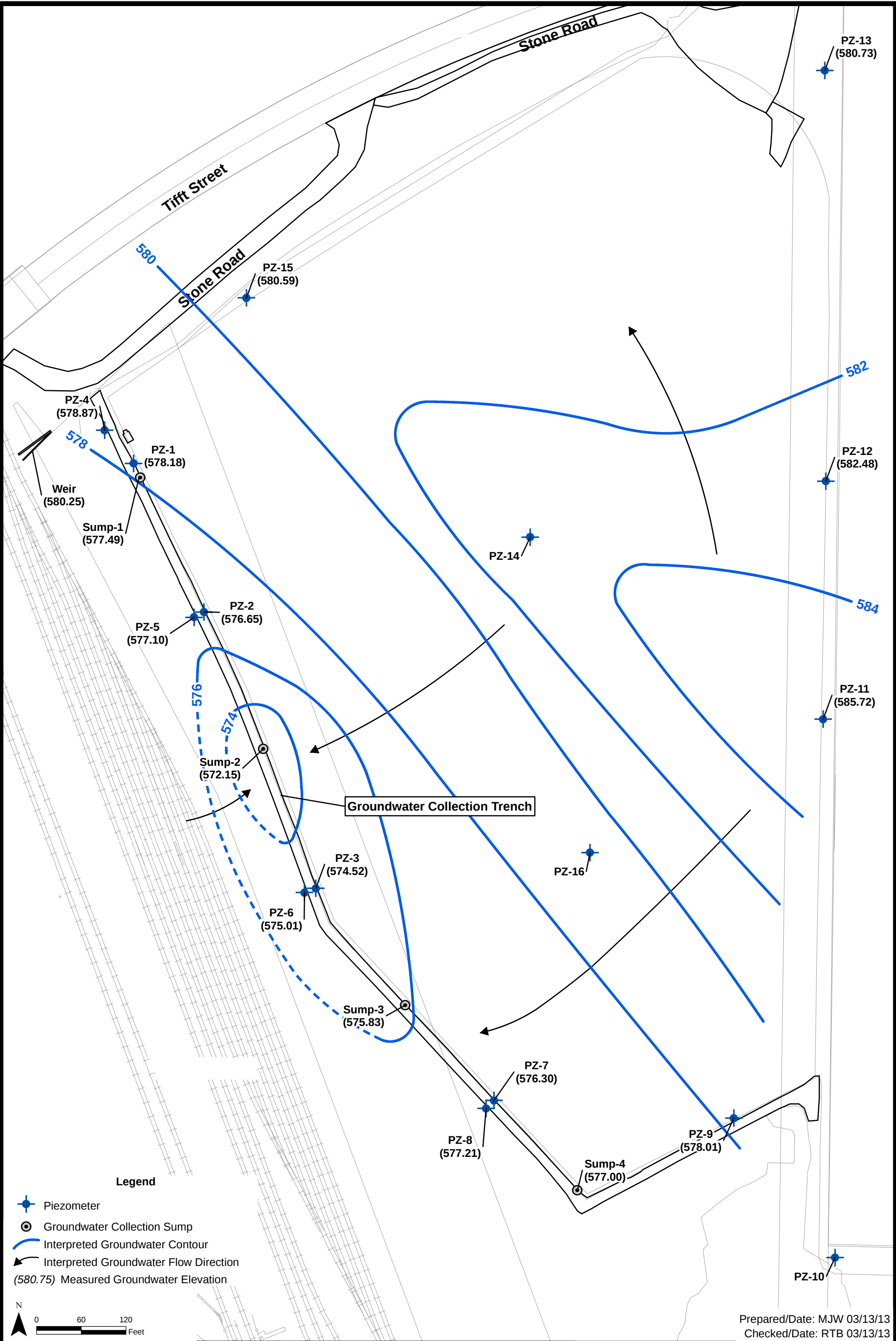
## **APPENDIX E**

### **QUARTERLY GROUNDWATER CONTOUR MAPS – 2012**

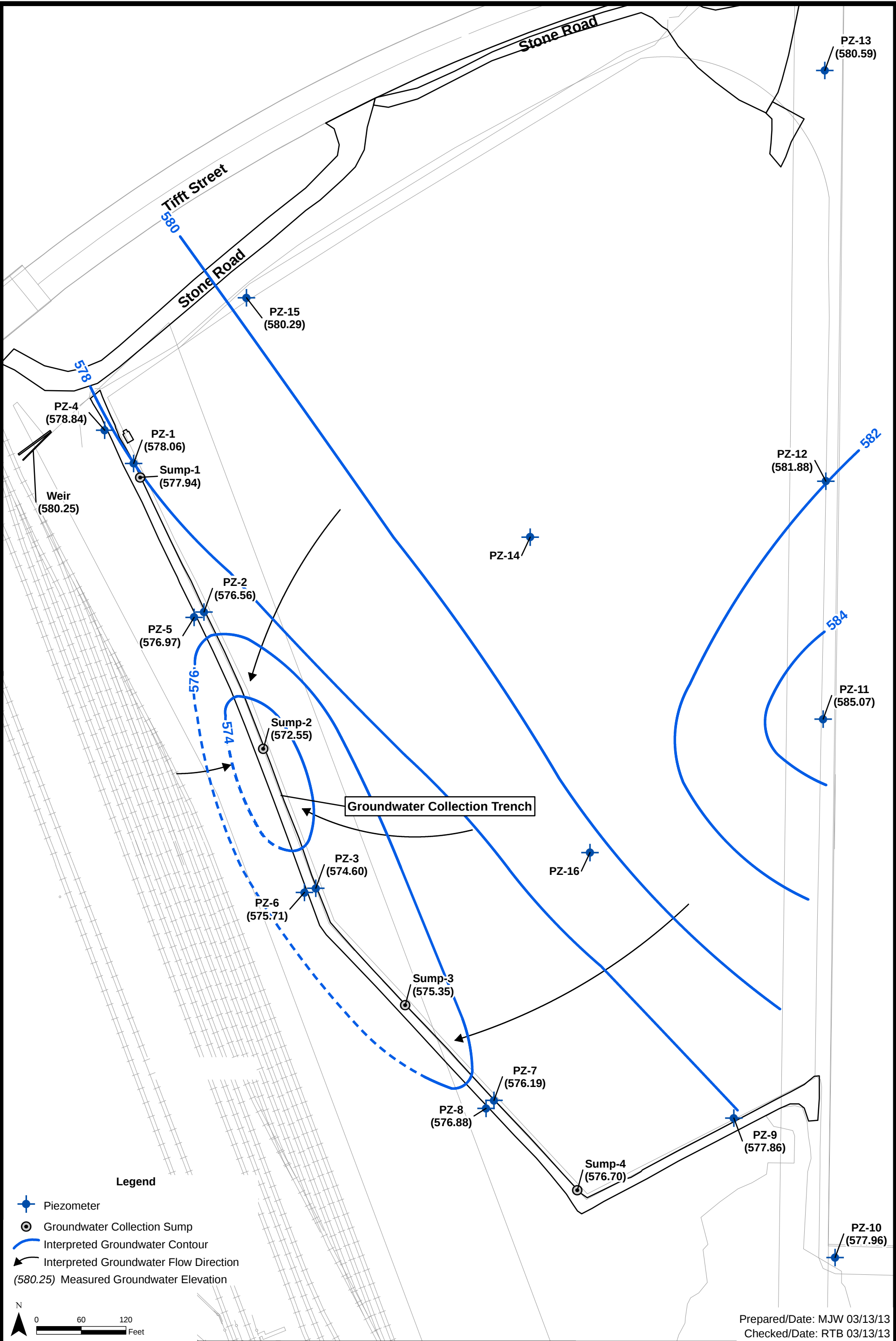


Prepared/Date: MJW 03/12/13  
Checked/Date: RTB 03/12/13





Prepared/Date: MJW 03/13/13  
Checked/Date: RTB 03/13/13



Honeywell Alltitt Landfill Site  
Buffalo, New York



Interpreted Groundwater Contours  
October 5, 2012  
Project 3410120905

Figure 4

## **APPENDIX F**

### **GROUNDWATER ANALYTICAL RESULTS – AUGUST 2012**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Lab PM:                                    |                                 | Camer Tracking No(s):                                          |                                   | COC No:                                                                                                                                                                                                                                                                                                                        |                    |                                   |                          |                              |                         |                            |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------|---------------------------------|----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|--------------------------|------------------------------|-------------------------|----------------------------|----------------------------|
| Client Contact:<br>John Formoza                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | Bogolin, Anthony                           |                                 |                                                                |                                   | 480-15491-3542.2                                                                                                                                                                                                                                                                                                               |                    |                                   |                          |                              |                         |                            |                            |
| Company:<br>Honeywell International Inc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | E-Mail:<br>tony.bogolin@testamericainc.com |                                 |                                                                |                                   | Page:<br>Page 1 of 1                                                                                                                                                                                                                                                                                                           |                    |                                   |                          |                              |                         |                            |                            |
| Address:<br>Remediation & Evaluation Services, Mey-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Due Date Requested:                        |                                 | Analysis Requested                                             |                                   | Job #:                                                                                                                                                                                                                                                                                                                         |                    |                                   |                          |                              |                         |                            |                            |
| City:<br>Morristown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | TAT Requested (days):                      |                                 |                                                                |                                   | Preservation Codes:                                                                                                                                                                                                                                                                                                            |                    |                                   |                          |                              |                         |                            |                            |
| State, Zip:<br>NJ, 07962                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | PO #:<br>Purchase Order Requested          |                                 |                                                                |                                   | A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNeO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2SO3<br>G - Amchlor S - H2SO4<br>H - Ascorbic Acid T - TSP Dodecahydrate<br>I - Ice U - Acetone<br>J - DI Water V - MCAA<br>K - EDTA W - ph 4-5<br>L - EDA Z - other (specify) |                    |                                   |                          |                              |                         |                            |                            |
| Email:<br>John.Formoza@CH2M.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | WO #:                                      |                                 |                                                                |                                   | Other:                                                                                                                                                                                                                                                                                                                         |                    |                                   |                          |                              |                         |                            |                            |
| Project Name:<br>Honeywell - Buffalo Sites/ Event Desc: Honeywell Alltiff GW Mon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | Project #:<br>48003159                     |                                 |                                                                |                                   |                                                                                                                                                                                                                                                                                                                                |                    |                                   |                          |                              |                         |                            |                            |
| Site:<br>New York                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | SSOW#:                                     |                                 |                                                                |                                   |                                                                                                                                                                                                                                                                                                                                |                    |                                   |                          |                              |                         |                            |                            |
| Sample Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sample Date | Sample Time                                | Sample Type<br>(C=comp, G=grab) | Matrix<br>(W=water, S=solid, O=organic/soil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No)                                                                                                                                                                                                                                                                                                     | 8010B, 8020, 7470A | 808_PCB - Priority Pollutant PCBs | 8081A - (MOD) Pesticides | 8270C - (MOD) Semi-volatiles | 8260B - (MOD) Volatiles | Total Number of containers | Special Instructions/Note: |
| MW-2-091312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9/13/12     | 0825                                       | G                               | Water                                                          | N                                 | N                                                                                                                                                                                                                                                                                                                              | 1                  | 2                                 | 2                        | 1                            | 3                       | 8                          |                            |
| <div> <div>Possible Hazard Identification</div> <div> <input type="checkbox"/> Non-Hazard           <input type="checkbox"/> Flammable           <input type="checkbox"/> Skin Irritant           <input type="checkbox"/> Poison B           <input type="checkbox"/> Unknown           <input type="checkbox"/> Radiological         </div> </div> <div> <div>Deliverable Requested: I, II, III, IV, Other (specify)</div> <div>Empty Kit Relinquished by: <i>Pat Higgins</i> Date: <i>09/13/2012 1400</i> Company: <i>TA Buffalo</i></div> </div> <div> <div>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</div> <div> <input type="checkbox"/> Return To Client           <input type="checkbox"/> Disposal By Lab           <input type="checkbox"/> Archive For _____ Months         </div> </div> <div> <div>Special Instructions/QC Requirements:</div> <div> <div>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</div> <div>Custody Seal No.:</div> </div> </div> |             |                                            |                                 |                                                                |                                   |                                                                                                                                                                                                                                                                                                                                |                    |                                   |                          |                              |                         |                            |                            |



6 AM  
1 PLASTIC  
3 VOA

|                  |                               |                |                                          |
|------------------|-------------------------------|----------------|------------------------------------------|
| Project Name     | Honeywell - Alltiff           | Sampling Event | Alltiff GW Annual Monitoring / Sep. 2012 |
| Job Number       |                               | Date           | September 12 <sup>th</sup> 2012          |
| Field Team       | Pat Higgins Mike Stow         | Page           | 1 of 1                                   |
| Field Conditions | Sunny Warm 70°F Slight Breeze |                |                                          |

Well/Sample Number MW-2 Start Time 08:32 Finish Time \_\_\_\_\_  
Initial Depth to Water 10.80 Measure Point: PVC Steel Casing Other: \_\_\_\_\_  
Purge Method: \_\_\_\_\_ Sample ID \_\_\_\_\_ Sample Time \_\_\_\_\_  
Geopump Ded. Pump Other Surf Duplicate Sample ID \_\_\_\_\_ Dupl. Time \_\_\_\_\_  
Sample Method: Parasitic Split Sample ID \_\_\_\_\_ Split Time \_\_\_\_\_

Depth to Bottom (from meas. pt): 17.0 Min, Purge Volume (gal)/(L) \_\_\_\_\_ Purge Rate (gpm)/(mLpm) \_\_\_\_\_  
Water Quality Parameter Measurement Technique: flow-thru cell in-situ open container

[illegible][illegible]

Remarks

Remarks: Purged well. Well Dry AFTER 2.5 gallons we will Test it well Later to see if Feederist.



Brackish water site to grab sample. purged well 9/12/2012 water is clear with no distinct odors present.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

| Client Information                                                                                                                                                                                                     |  |                    |             | Sample                            |                                             | Lab PM:                                    |                            | Carrier Tracking No(s): |                                   | COC No:                  |                              |                         |                            |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-------------|-----------------------------------|---------------------------------------------|--------------------------------------------|----------------------------|-------------------------|-----------------------------------|--------------------------|------------------------------|-------------------------|----------------------------|----|
| Client Contact:<br>John Fornozza                                                                                                                                                                                       |  |                    |             | Patrick Higgins<br>(315) 468-1663 |                                             | Bogolin, Anthony                           |                            |                         |                                   | 480-15491-3542.1         |                              |                         |                            |    |
| Company:<br>Honeywell International Inc                                                                                                                                                                                |  |                    |             |                                   |                                             | E-Mail:<br>tony.bogolin@testamericainc.com |                            |                         |                                   | Page:<br>Page 1 of 1     |                              |                         |                            |    |
| Address:<br>Remediation & Evaluation Services, Mey-3                                                                                                                                                                   |  |                    |             | Due Date Requested:               |                                             | Analysis Requested                         |                            |                         |                                   |                          |                              |                         |                            |    |
| City:<br>Morristown                                                                                                                                                                                                    |  |                    |             | TAT Requested (days):             |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| State, Zip:<br>NJ, 07962                                                                                                                                                                                               |  |                    |             | PO #:                             |                                             | Preservation Codes:                        |                            |                         |                                   |                          |                              |                         |                            |    |
| Phone:                                                                                                                                                                                                                 |  |                    |             | Purchase Order Requested          |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Email:<br>John.Fornozza@CH2M.com                                                                                                                                                                                       |  |                    |             | WO #:                             |                                             | Other:                                     |                            |                         |                                   |                          |                              |                         |                            |    |
| Project Name:<br>Honeywell - Buffalo Sites/ Event Desc: Honeywell Altift GW Mon                                                                                                                                        |  |                    |             | Project #:<br>48003159            |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Site:<br>New York                                                                                                                                                                                                      |  |                    |             | SSOW#:                            |                                             | Total Number of Containers                 |                            |                         |                                   |                          |                              |                         |                            |    |
|                                                                                                                                                                                                                        |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Sample Identification                                                                                                                                                                                                  |  | Sample Date        | Sample Time | Sample Type<br>(C=comp, G=grab)   | Matrix<br>(W=water, S=solid, O=soil, A=air) | Field Filtered Sample (Yes or No)          | Perform MS/MSD (Yes or No) | 6010B, 8030, 7470A      | 609_PCB - Priority Pollutant PCBs | 8081A - (MOD) Pesticides | 8270C - (MOD) Semi-volatiles | 8260B - (MOD) Volatiles | Special Instructions/Note: |    |
|                                                                                                                                                                                                                        |  |                    |             | Preservation Code:                |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Sump Comp-091212                                                                                                                                                                                                       |  | 9/12/11            | 1207        | C                                 | Water                                       | N                                          | N                          | 1                       | 2                                 | 2                        | 2                            |                         |                            | 7  |
| Sump 1-091212                                                                                                                                                                                                          |  | 9/12/11            | 1201        | G                                 | Water                                       | N                                          | N                          |                         |                                   |                          | 3                            |                         |                            | 3  |
| Sump 2-091212                                                                                                                                                                                                          |  | 9/12/11            | 1139        | G                                 | Water                                       | N                                          | N                          |                         |                                   |                          | 3                            |                         |                            | 3  |
| Sump 3-091212                                                                                                                                                                                                          |  | 9/12/11            | 1119        | G                                 | Water                                       | N                                          | N                          |                         |                                   |                          | 3                            |                         |                            | 3  |
| Sump 4-091212                                                                                                                                                                                                          |  | 9/12/11            | 09:54       | G                                 | Water                                       | N                                          |                            | 1                       | 2                                 | 2                        | 2                            | 3                       |                            | 10 |
| FDUP-Sump 4-091212                                                                                                                                                                                                     |  | 9/12/11            | 10:37       | G                                 | Water                                       | N                                          | N                          | 1                       | 2                                 | 2                        | 2                            | 3                       |                            | 10 |
| Sump 4-091212_MS                                                                                                                                                                                                       |  | 9/12/11            | 10:11       | G                                 | Water                                       | N                                          | Y                          | 1                       | 2                                 | 2                        | 2                            | 3                       |                            | 10 |
| Sump 4-091212_SD                                                                                                                                                                                                       |  | 9/12/11            | 10:23       | G                                 | Water                                       | N                                          | Y                          | 1                       | 2                                 | 2                        | 2                            | 3                       |                            | 10 |
| TRIP BLANK                                                                                                                                                                                                             |  | 9/12/11            | 10:45       | G                                 | Water                                       | N                                          | N                          |                         |                                   |                          | 1                            |                         |                            | 1  |
| <del>HW-2-091212</del>                                                                                                                                                                                                 |  | <del>9/12/11</del> |             | <del>G</del>                      | <del>Water</del>                            | <del>N</del>                               | <del>N</del>               |                         |                                   |                          |                              |                         |                            | 0  |
|                                                                                                                                                                                                                        |  |                    |             |                                   | Water                                       |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Possible Hazard Identification                                                                                                                                                                                         |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                 |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Empty Kit Relinquished by:                                                                                                                                                                                             |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Date: 09/12/2012 1505                                                                                                                                                                                                  |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Time: 1505                                                                                                                                                                                                             |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Method of Shipment:                                                                                                                                                                                                    |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Relinquished by: Patrick Higgins                                                                                                                                                                                       |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Relinquished by:                                                                                                                                                                                                       |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Relinquished by:                                                                                                                                                                                                       |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                         |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Custody Seal No.:                                                                                                                                                                                                      |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                            |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                                                                                                    |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                                                                                   |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |
| Special Instructions/QC Requirements:                                                                                                                                                                                  |  |                    |             |                                   |                                             |                                            |                            |                         |                                   |                          |                              |                         |                            |    |





Water is tinged yellow in color with no odors present  
met Decanned per CH2M Hill standards.



Equipment Deconned per CMAA Mill Standards





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-18659-1

Client Project/Site: Honeywell - Buffalo (Alltiff) - 30130

Revision: 1

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. John Mojka



Authorized for release by:

10/17/2012 6:15:55 PM

John Schove

Project Manager I

[john.schove@testamericainc.com](mailto:john.schove@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 2  |
| Definitions/Glossary . . . . .   | 3  |
| Case Narrative . . . . .         | 4  |
| Detection Summary . . . . .      | 5  |
| Client Sample Results . . . . .  | 6  |
| Surrogate Summary . . . . .      | 10 |
| QC Sample Results . . . . .      | 11 |
| QC Association Summary . . . . . | 18 |
| Lab Chronicle . . . . .          | 19 |
| Certification Summary . . . . .  | 20 |
| Method Summary . . . . .         | 21 |
| Sample Summary . . . . .         | 22 |
| Chain of Custody . . . . .       | 23 |
| Receipt Checklists . . . . .     | 24 |



## Definitions/Glossary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| *         | LCS or LCSD exceeds the control limits                                                                         |

#### General Chemistry

| Qualifier | Qualifier Description                             |
|-----------|---------------------------------------------------|
| HF        | Field parameter with a holding time of 15 minutes |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Case Narrative

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Job ID: 480-18659-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-18659-1

#### Revision

This report has been revised to include the Priority Pollutant list of compounds for methods 624 and 625.

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/16/2012 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

#### GC/MS VOA

Method(s) 624: The following sample was composited by the laboratory on 4/18/12 as requested on the chain-of-custody: COMP 041612 (480-18659-5).

Method(s) 624: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: COMP 041612 (480-18659-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 625: The continuing calibration verification (CCV) for Benzidine associated with batch 61211 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 625: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 60131 exceeded control limits for the following analytes: Diethyl phthalate and Di-n-butyl phthalate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 625: The following sample was diluted due to the nature of the sample matrix: COMP 041612 (480-18659-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### General Chemistry

Method(s) SM 2540D: The results reported for the following sample do not concur with results previously reported for this site: COMP 041612 (480-18659-5). Reanalysis was performed, and the result confirmed.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMP 041612 (480-18659-5)

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: COMP 041612**

**Lab Sample ID: 480-18659-5**

| Analyte                | Result | Qualifier | RL    | MDL   | Unit | Dil | Fac | D | Method       | Prep Type |
|------------------------|--------|-----------|-------|-------|------|-----|-----|---|--------------|-----------|
| Chlorobenzene          | 48     | J         | 50    | 4.8   | ug/L | 10  |     |   | 624          | Total/NA  |
| 4-Chloroaniline        | 7.7    | J         | 25    | 3.5   | ug/L | 5   |     |   | 625          | Total/NA  |
| Analyte                | Result | Qualifier | RL    | RL    | Unit | Dil | Fac | D | Method       | Prep Type |
| Total Suspended Solids | 61.6   |           | 4.0   | 4.0   | mg/L | 1   |     |   | SM 2540D     | Total/NA  |
| pH                     | 7.42   | HF        | 0.100 | 0.100 | SU   | 1   |     |   | SM 4500 H+ B | Total/NA  |

**Client Sample ID: 041612-TB**

**Lab Sample ID: 480-18659-6**

No Detections

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: COMP 041612**

**Lab Sample ID: 480-18659-5**

**Date Collected: 04/16/12 15:00**

**Matrix: Water**

**Date Received: 04/16/12 15:45**

## Method: 624 - Volatile Organic Compounds (GC/MS)

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND     |           | 50   | 3.9 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,1,2,2-Tetrachloroethane | ND     |           | 50   | 2.6 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,1,2-Trichloroethane     | ND     |           | 50   | 4.8 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,1-Dichloroethane        | ND     |           | 50   | 5.9 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,1-Dichloroethene        | ND     |           | 50   | 8.5 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,2-Dichlorobenzene       | ND     |           | 50   | 4.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,2-Dichloroethane        | ND     |           | 50   | 6.0 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,2-Dichloroethene, Total | ND     |           | 100  | 32  | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,2-Dichloropropane       | ND     |           | 50   | 6.1 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,3-Dichlorobenzene       | ND     |           | 50   | 5.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 1,4-Dichlorobenzene       | ND     |           | 50   | 5.1 | ug/L |   |          | 04/18/12 13:11 | 10      |
| 2-Chloroethyl vinyl ether | ND     |           | 250  | 19  | ug/L |   |          | 04/18/12 13:11 | 10      |
| Acrolein                  | ND     |           | 1000 | 170 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Acrylonitrile             | ND     |           | 250  | 19  | ug/L |   |          | 04/18/12 13:11 | 10      |
| Benzene                   | ND     |           | 50   | 6.0 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Bromoform                 | ND     |           | 50   | 4.7 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Bromomethane              | ND     |           | 50   | 12  | ug/L |   |          | 04/18/12 13:11 | 10      |
| Carbon tetrachloride      | ND     |           | 50   | 5.1 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Chlorobenzene             | 48     | J         | 50   | 4.8 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Chlorodibromomethane      | ND     |           | 50   | 4.1 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Chloroethane              | ND     |           | 50   | 8.7 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Chloroform                | ND     |           | 50   | 5.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Chloromethane             | ND     |           | 50   | 6.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| cis-1,3-Dichloropropene   | ND     |           | 50   | 3.3 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Dichlorobromomethane      | ND     |           | 50   | 5.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Ethylbenzene              | ND     |           | 50   | 4.6 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Methylene Chloride        | ND     |           | 50   | 8.1 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Tetrachloroethene         | ND     |           | 50   | 3.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Toluene                   | ND     |           | 50   | 4.5 | ug/L |   |          | 04/18/12 13:11 | 10      |
| trans-1,2-Dichloroethene  | ND     |           | 50   | 5.9 | ug/L |   |          | 04/18/12 13:11 | 10      |
| trans-1,3-Dichloropropene | ND     |           | 50   | 4.4 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Trichloroethene           | ND     |           | 50   | 6.0 | ug/L |   |          | 04/18/12 13:11 | 10      |
| Vinyl chloride            | ND     |           | 50   | 7.5 | ug/L |   |          | 04/18/12 13:11 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 72 - 130 |          | 04/18/12 13:11 | 10      |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 69 - 121 |          | 04/18/12 13:11 | 10      |
| Toluene-d8 (Surr)            | 97        |           | 70 - 123 |          | 04/18/12 13:11 | 10      |

## Method: 625 - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND     |           | 50 | 2.5  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 1,2-Dichlorobenzene    | ND     |           | 50 | 0.73 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 1,2-Diphenylhydrazine  | ND     |           | 50 | 0.32 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 1,3-Dichlorobenzene    | ND     |           | 50 | 0.34 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 1,4-Dichlorobenzene    | ND     |           | 50 | 0.45 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2,4,6-Trichlorophenol  | ND     |           | 25 | 1.2  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2,4-Dichlorophenol     | ND     |           | 25 | 1.5  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2,4-Dimethylphenol     | ND     |           | 25 | 0.67 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2,4-Dinitrophenol      | ND     |           | 50 | 4.2  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2,4-Dinitrotoluene     | ND     |           | 25 | 1.3  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: COMP 041612**

**Lab Sample ID: 480-18659-5**

**Date Collected: 04/16/12 15:00**

**Matrix: Water**

**Date Received: 04/16/12 15:45**

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,6-Dinitrotoluene            | ND     |           | 25  | 3.6  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2-Chloronaphthalene           | ND     |           | 25  | 0.34 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2-Chlorophenol                | ND     |           | 25  | 0.78 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2-Nitrophenol                 | ND     |           | 25  | 0.72 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 3,3'-Dichlorobenzidine        | ND     |           | 25  | 4.1  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 50  | 3.8  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4-Bromophenyl phenyl ether    | ND     |           | 25  | 0.57 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4-Chloro-3-methylphenol       | ND     |           | 25  | 2.8  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4-Chloroaniline               | 7.7    | J         | 25  | 3.5  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 25  | 1.0  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 4-Nitrophenol                 | ND     |           | 50  | 6.7  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Acenaphthene                  | ND     |           | 25  | 0.30 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Acenaphthylene                | ND     |           | 25  | 0.17 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Anthracene                    | ND     |           | 25  | 0.26 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzidine                     | ND     |           | 400 | 13   | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzo[a]anthracene            | ND     |           | 25  | 0.22 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzo[a]pyrene                | ND     |           | 25  | 0.29 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzo[b]fluoranthene          | ND     |           | 25  | 0.31 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzo[g,h,i]perylene          | ND     |           | 25  | 0.50 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Benzo[k]fluoranthene          | ND     |           | 25  | 0.21 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| bis (2-chloroisopropyl) ether | ND     |           | 25  | 0.43 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25  | 0.42 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Bis(2-chloroethyl)ether       | ND     |           | 25  | 5.5  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 50  | 4.3  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Butyl benzyl phthalate        | ND     |           | 25  | 6.5  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Chrysene                      | ND     |           | 25  | 0.18 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Dibenz(a,h)anthracene         | ND     |           | 25  | 0.28 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Diethyl phthalate             | ND     | *         | 25  | 0.87 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Dimethyl phthalate            | ND     |           | 25  | 0.83 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Di-n-butyl phthalate          | ND     | *         | 25  | 4.7  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Di-n-octyl phthalate          | ND     |           | 25  | 22   | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Fluoranthene                  | ND     |           | 25  | 0.55 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Fluorene                      | ND     |           | 25  | 0.21 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Hexachlorobenzene             | ND     |           | 25  | 1.4  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Hexachlorobutadiene           | ND     |           | 25  | 3.1  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Hexachlorocyclopentadiene     | ND     |           | 25  | 2.3  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Hexachloroethane              | ND     |           | 25  | 2.4  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Indeno[1,2,3-cd]pyrene        | ND     |           | 25  | 0.93 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Isophorone                    | ND     |           | 25  | 0.79 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Naphthalene                   | ND     |           | 25  | 0.40 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Nitrobenzene                  | ND     |           | 25  | 0.55 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| N-Nitrosodimethylamine        | ND     |           | 50  | 4.8  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25  | 1.2  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| N-Nitrosodiphenylamine        | ND     |           | 25  | 2.0  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Pentachlorophenol             | ND     |           | 50  | 2.1  | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Phenanthrene                  | ND     |           | 25  | 0.36 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Phenol                        | ND     |           | 25  | 0.61 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Pyrene                        | ND     |           | 25  | 0.20 | ug/L |   | 04/18/12 06:58 | 04/24/12 21:28 | 5       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 86        |           | 52 - 151 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: COMP 041612**

**Lab Sample ID: 480-18659-5**

**Date Collected: 04/16/12 15:00**

**Matrix: Water**

**Date Received: 04/16/12 15:45**

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 84        |           | 44 - 120 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| 2-Fluorophenol   | 44        |           | 17 - 120 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Nitrobenzene-d5  | 85        |           | 42 - 120 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| Phenol-d5        | 27        |           | 10 - 120 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |
| p-Terphenyl-d14  | 56        |           | 22 - 125 | 04/18/12 06:58 | 04/24/12 21:28 | 5       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | RL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Total Suspended Solids | 61.6   |           | 4.0   | 4.0   | mg/L |   |          | 04/17/12 22:50 | 1       |
| pH                     | 7.42   | HF        | 0.100 | 0.100 | SU   |   |          | 04/16/12 21:50 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: 041612-TB**

**Lab Sample ID: 480-18659-6**

**Date Collected: 04/16/12 15:00**

**Matrix: Water**

**Date Received: 04/16/12 15:45**

## Method: 624 - Volatile Organic Compounds (GC/MS)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND     |           | 5.0 | 0.39 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,1,2,2-Tetrachloroethane | ND     |           | 5.0 | 0.26 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,1,2-Trichloroethane     | ND     |           | 5.0 | 0.48 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,1-Dichloroethane        | ND     |           | 5.0 | 0.59 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,1-Dichloroethene        | ND     |           | 5.0 | 0.85 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,2-Dichlorobenzene       | ND     |           | 5.0 | 0.44 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,2-Dichloroethane        | ND     |           | 5.0 | 0.60 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,2-Dichloroethene, Total | ND     |           | 10  | 3.2  | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,2-Dichloropropane       | ND     |           | 5.0 | 0.61 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,3-Dichlorobenzene       | ND     |           | 5.0 | 0.54 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 1,4-Dichlorobenzene       | ND     |           | 5.0 | 0.51 | ug/L |   |          | 04/18/12 13:34 | 1       |
| 2-Chloroethyl vinyl ether | ND     |           | 25  | 1.9  | ug/L |   |          | 04/18/12 13:34 | 1       |
| Acrolein                  | ND     |           | 100 | 17   | ug/L |   |          | 04/18/12 13:34 | 1       |
| Acrylonitrile             | ND     |           | 25  | 1.9  | ug/L |   |          | 04/18/12 13:34 | 1       |
| Benzene                   | ND     |           | 5.0 | 0.60 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Bromoform                 | ND     |           | 5.0 | 0.47 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Bromomethane              | ND     |           | 5.0 | 1.2  | ug/L |   |          | 04/18/12 13:34 | 1       |
| Carbon tetrachloride      | ND     |           | 5.0 | 0.51 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Chlorobenzene             | ND     |           | 5.0 | 0.48 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Chlorodibromomethane      | ND     |           | 5.0 | 0.41 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Chloroethane              | ND     |           | 5.0 | 0.87 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Chloroform                | ND     |           | 5.0 | 0.54 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Chloromethane             | ND     |           | 5.0 | 0.64 | ug/L |   |          | 04/18/12 13:34 | 1       |
| cis-1,3-Dichloropropene   | ND     |           | 5.0 | 0.33 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Dichlorobromomethane      | ND     |           | 5.0 | 0.54 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Ethylbenzene              | ND     |           | 5.0 | 0.46 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Methylene Chloride        | ND     |           | 5.0 | 0.81 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Tetrachloroethene         | ND     |           | 5.0 | 0.34 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Toluene                   | ND     |           | 5.0 | 0.45 | ug/L |   |          | 04/18/12 13:34 | 1       |
| trans-1,2-Dichloroethene  | ND     |           | 5.0 | 0.59 | ug/L |   |          | 04/18/12 13:34 | 1       |
| trans-1,3-Dichloropropene | ND     |           | 5.0 | 0.44 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Trichloroethene           | ND     |           | 5.0 | 0.60 | ug/L |   |          | 04/18/12 13:34 | 1       |
| Vinyl chloride            | ND     |           | 5.0 | 0.75 | ug/L |   |          | 04/18/12 13:34 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 72 - 130 |          | 04/18/12 13:34 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 69 - 121 |          | 04/18/12 13:34 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 70 - 123 |          | 04/18/12 13:34 | 1       |

## Surrogate Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

### Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-----------------|--------------------|------------------------------------------------|-----------------|-----------------|
|                 |                    | 12DCE<br>(72-130)                              | BFB<br>(69-121) | TOL<br>(70-123) |
| 480-18659-5     | COMP 041612        | 96                                             | 97              | 97              |
| 480-18659-6     | 041612-TB          | 100                                            | 98              | 98              |
| LCS 480-60196/4 | Lab Control Sample | 96                                             | 100             | 98              |
| MB 480-60196/5  | Method Blank       | 95                                             | 98              | 99              |

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

### Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                 |                 |
|--------------------|------------------------|------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                    |                        | TBP<br>(52-151)                                | FBP<br>(44-120) | 2FP<br>(17-120) | NBZ<br>(42-120) | PHL<br>(10-120) | TPH<br>(22-125) |
| 480-18659-5        | COMP 041612            | 86                                             | 84              | 44              | 85              | 27              | 56              |
| LCS 480-60131/2-A  | Lab Control Sample     | 104                                            | 96              | 48              | 94              | 36              | 95              |
| LCSD 480-60131/3-A | Lab Control Sample Dup | 106                                            | 97              | 51              | 95              | 36              | 102             |
| MB 480-60131/1-A   | Method Blank           | 93                                             | 84              | 40              | 81              | 29              | 91              |

#### Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-60196/5

Matrix: Water

Analysis Batch: 60196

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND        |              | 5.0 | 0.39 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,1,2,2-Tetrachloroethane | ND        |              | 5.0 | 0.26 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,1,2-Trichloroethane     | ND        |              | 5.0 | 0.48 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,1-Dichloroethane        | ND        |              | 5.0 | 0.59 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,1-Dichloroethene        | ND        |              | 5.0 | 0.85 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,2-Dichlorobenzene       | ND        |              | 5.0 | 0.44 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,2-Dichloroethane        | ND        |              | 5.0 | 0.60 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,2-Dichloroethene, Total | ND        |              | 10  | 3.2  | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,2-Dichloropropane       | ND        |              | 5.0 | 0.61 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,3-Dichlorobenzene       | ND        |              | 5.0 | 0.54 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 1,4-Dichlorobenzene       | ND        |              | 5.0 | 0.51 | ug/L |   |          | 04/18/12 11:35 | 1       |
| 2-Chloroethyl vinyl ether | ND        |              | 25  | 1.9  | ug/L |   |          | 04/18/12 11:35 | 1       |
| Acrolein                  | ND        |              | 100 | 17   | ug/L |   |          | 04/18/12 11:35 | 1       |
| Acrylonitrile             | ND        |              | 25  | 1.9  | ug/L |   |          | 04/18/12 11:35 | 1       |
| Benzene                   | ND        |              | 5.0 | 0.60 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Bromoform                 | ND        |              | 5.0 | 0.47 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Bromomethane              | ND        |              | 5.0 | 1.2  | ug/L |   |          | 04/18/12 11:35 | 1       |
| Carbon tetrachloride      | ND        |              | 5.0 | 0.51 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Chlorobenzene             | ND        |              | 5.0 | 0.48 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Chlorodibromomethane      | ND        |              | 5.0 | 0.41 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Chloroethane              | ND        |              | 5.0 | 0.87 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Chloroform                | ND        |              | 5.0 | 0.54 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Chloromethane             | ND        |              | 5.0 | 0.64 | ug/L |   |          | 04/18/12 11:35 | 1       |
| cis-1,3-Dichloropropene   | ND        |              | 5.0 | 0.33 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Dichlorobromomethane      | ND        |              | 5.0 | 0.54 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Ethylbenzene              | ND        |              | 5.0 | 0.46 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Methylene Chloride        | ND        |              | 5.0 | 0.81 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Tetrachloroethene         | ND        |              | 5.0 | 0.34 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Toluene                   | ND        |              | 5.0 | 0.45 | ug/L |   |          | 04/18/12 11:35 | 1       |
| trans-1,2-Dichloroethene  | ND        |              | 5.0 | 0.59 | ug/L |   |          | 04/18/12 11:35 | 1       |
| trans-1,3-Dichloropropene | ND        |              | 5.0 | 0.44 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Trichloroethene           | ND        |              | 5.0 | 0.60 | ug/L |   |          | 04/18/12 11:35 | 1       |
| Vinyl chloride            | ND        |              | 5.0 | 0.75 | ug/L |   |          | 04/18/12 11:35 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95           |              | 72 - 130 |          | 04/18/12 11:35 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98           |              | 69 - 121 |          | 04/18/12 11:35 | 1       |
| Toluene-d8 (Surr)            | 99           |              | 70 - 123 |          | 04/18/12 11:35 | 1       |

Lab Sample ID: LCS 480-60196/4

Matrix: Water

Analysis Batch: 60196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 20.0        | 20.0       |               | ug/L |   | 100  | 75 - 125     |
| 1,1,2,2-Tetrachloroethane | 20.0        | 20.8       |               | ug/L |   | 104  | 61 - 140     |
| 1,1,2-Trichloroethane     | 20.0        | 20.0       |               | ug/L |   | 100  | 71 - 129     |
| 1,1-Dichloroethane        | 20.0        | 18.8       |               | ug/L |   | 94   | 73 - 128     |
| 1,1-Dichloroethene        | 20.0        | 16.0       |               | ug/L |   | 80   | 51 - 150     |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-60196/4

Matrix: Water

Analysis Batch: 60196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichlorobenzene       | 20.0        | 19.8       |               | ug/L |   | 99   | 63 - 137     |
| 1,2-Dichloroethane        | 20.0        | 20.2       |               | ug/L |   | 101  | 68 - 132     |
| 1,2-Dichloropropane       | 20.0        | 19.4       |               | ug/L |   | 97   | 34 - 166     |
| 1,3-Dichlorobenzene       | 20.0        | 19.3       |               | ug/L |   | 97   | 73 - 127     |
| 1,4-Dichlorobenzene       | 20.0        | 19.4       |               | ug/L |   | 97   | 63 - 137     |
| 2-Chloroethyl vinyl ether | 100         | 97.9       |               | ug/L |   | 98   | 1 - 224      |
| Benzene                   | 20.0        | 19.5       |               | ug/L |   | 98   | 64 - 136     |
| Bromoform                 | 20.0        | 19.1       |               | ug/L |   | 96   | 71 - 129     |
| Bromomethane              | 20.0        | 18.4       |               | ug/L |   | 92   | 14 - 186     |
| Carbon tetrachloride      | 20.0        | 19.7       |               | ug/L |   | 99   | 73 - 127     |
| Chlorobenzene             | 20.0        | 19.5       |               | ug/L |   | 98   | 66 - 134     |
| Chlorodibromomethane      | 20.0        | 20.9       |               | ug/L |   | 105  | 68 - 133     |
| Chloroethane              | 20.0        | 16.9       |               | ug/L |   | 85   | 38 - 162     |
| Chloroform                | 20.0        | 20.2       |               | ug/L |   | 101  | 68 - 133     |
| Chloromethane             | 20.0        | 14.8       |               | ug/L |   | 74   | 1 - 204      |
| cis-1,3-Dichloropropene   | 20.0        | 19.8       |               | ug/L |   | 99   | 24 - 176     |
| Dichlorobromomethane      | 20.0        | 20.2       |               | ug/L |   | 101  | 66 - 135     |
| Ethylbenzene              | 20.0        | 19.3       |               | ug/L |   | 97   | 59 - 141     |
| Methylene Chloride        | 20.0        | 19.4       |               | ug/L |   | 97   | 61 - 140     |
| Tetrachloroethene         | 20.0        | 18.5       |               | ug/L |   | 93   | 74 - 127     |
| Toluene                   | 20.0        | 19.1       |               | ug/L |   | 96   | 75 - 126     |
| trans-1,2-Dichloroethene  | 20.0        | 19.3       |               | ug/L |   | 97   | 72 - 133     |
| trans-1,3-Dichloropropene | 20.0        | 18.9       |               | ug/L |   | 95   | 50 - 150     |
| Trichloroethene           | 20.0        | 20.1       |               | ug/L |   | 101  | 67 - 134     |
| Vinyl chloride            | 20.0        | 15.3       |               | ug/L |   | 77   | 4 - 196      |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 96            |               | 72 - 130 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 69 - 121 |
| Toluene-d8 (Surr)            | 98            |               | 70 - 123 |

## Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-60131/1-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND        |              | 10  | 0.49  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 1,2-Dichlorobenzene    | ND        |              | 10  | 0.15  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 1,2-Diphenylhydrazine  | ND        |              | 10  | 0.063 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 1,3-Dichlorobenzene    | ND        |              | 10  | 0.069 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 1,4-Dichlorobenzene    | ND        |              | 10  | 0.090 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,4,6-Trichlorophenol  | ND        |              | 5.0 | 0.23  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,4-Dichlorophenol     | ND        |              | 5.0 | 0.30  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,4-Dimethylphenol     | ND        |              | 5.0 | 0.13  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,4-Dinitrophenol      | ND        |              | 10  | 0.84  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,4-Dinitrotoluene     | ND        |              | 5.0 | 0.26  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2,6-Dinitrotoluene     | ND        |              | 5.0 | 0.72  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-60131/1-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                       | MB<br>Result | MB<br>Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------------|-----------------|-----|-------|------|---|----------------|----------------|---------|
| 2-Chloronaphthalene           | ND           |                 | 5.0 | 0.068 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2-Chlorophenol                | ND           |                 | 5.0 | 0.16  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2-Nitrophenol                 | ND           |                 | 5.0 | 0.14  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 3,3'-Dichlorobenzidine        | ND           |                 | 5.0 | 0.82  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND           |                 | 10  | 0.76  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4-Bromophenyl phenyl ether    | ND           |                 | 5.0 | 0.11  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4-Chloro-3-methylphenol       | ND           |                 | 5.0 | 0.56  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4-Chloroaniline               | ND           |                 | 5.0 | 0.69  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4-Chlorophenyl phenyl ether   | ND           |                 | 5.0 | 0.21  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 4-Nitrophenol                 | ND           |                 | 10  | 1.3   | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Acenaphthene                  | ND           |                 | 5.0 | 0.060 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Acenaphthylene                | ND           |                 | 5.0 | 0.034 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Anthracene                    | ND           |                 | 5.0 | 0.052 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzidine                     | ND           |                 | 80  | 2.5   | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzo[a]anthracene            | ND           |                 | 5.0 | 0.043 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzo[a]pyrene                | ND           |                 | 5.0 | 0.058 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzo[b]fluoranthene          | ND           |                 | 5.0 | 0.062 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzo[g,h,i]perylene          | ND           |                 | 5.0 | 0.10  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Benzo[k]fluoranthene          | ND           |                 | 5.0 | 0.042 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| bis (2-chloroisopropyl) ether | ND           |                 | 5.0 | 0.086 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Bis(2-chloroethoxy)methane    | ND           |                 | 5.0 | 0.085 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Bis(2-chloroethyl)ether       | ND           |                 | 5.0 | 1.1   | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND           |                 | 10  | 0.86  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Butyl benzyl phthalate        | ND           |                 | 5.0 | 1.3   | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Chrysene                      | ND           |                 | 5.0 | 0.036 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Dibenz(a,h)anthracene         | ND           |                 | 5.0 | 0.055 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Diethyl phthalate             | ND           |                 | 5.0 | 0.17  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Dimethyl phthalate            | ND           |                 | 5.0 | 0.17  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Di-n-butyl phthalate          | ND           |                 | 5.0 | 0.94  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Di-n-octyl phthalate          | ND           |                 | 5.0 | 4.5   | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Fluoranthene                  | ND           |                 | 5.0 | 0.11  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Fluorene                      | ND           |                 | 5.0 | 0.043 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Hexachlorobenzene             | ND           |                 | 5.0 | 0.28  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Hexachlorobutadiene           | ND           |                 | 5.0 | 0.62  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Hexachlorocyclopentadiene     | ND           |                 | 5.0 | 0.45  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Hexachloroethane              | ND           |                 | 5.0 | 0.48  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Indeno[1,2,3-cd]pyrene        | ND           |                 | 5.0 | 0.19  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Isophorone                    | ND           |                 | 5.0 | 0.16  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Naphthalene                   | ND           |                 | 5.0 | 0.080 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Nitrobenzene                  | ND           |                 | 5.0 | 0.11  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| N-Nitrosodimethylamine        | ND           |                 | 10  | 0.96  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| N-Nitrosodi-n-propylamine     | ND           |                 | 5.0 | 0.23  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| N-Nitrosodiphenylamine        | ND           |                 | 5.0 | 0.40  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Pentachlorophenol             | ND           |                 | 10  | 0.41  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Phenanthrene                  | ND           |                 | 5.0 | 0.071 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Phenol                        | ND           |                 | 5.0 | 0.12  | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Pyrene                        | ND           |                 | 5.0 | 0.041 | ug/L |   | 04/18/12 06:58 | 04/24/12 19:27 | 1       |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-60131/1-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60131

| Surrogate            | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 93              |                 | 52 - 151 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2-Fluorobiphenyl     | 84              |                 | 44 - 120 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| 2-Fluorophenol       | 40              |                 | 17 - 120 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Nitrobenzene-d5      | 81              |                 | 42 - 120 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| Phenol-d5            | 29              |                 | 10 - 120 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |
| p-Terphenyl-d14      | 91              |                 | 22 - 125 | 04/18/12 06:58 | 04/24/12 19:27 | 1       |

Lab Sample ID: LCS 480-60131/2-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                       | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,2,4-Trichlorobenzene        | 100            | 76.4          |                  | ug/L |   | 76   | 44 - 142        |
| 1,2-Dichlorobenzene           | 100            | 69.9          |                  | ug/L |   | 70   | 32 - 129        |
| 1,3-Dichlorobenzene           | 100            | 66.9          |                  | ug/L |   | 67   | 1 - 172         |
| 1,4-Dichlorobenzene           | 100            | 67.6          |                  | ug/L |   | 68   | 20 - 124        |
| 2,4,6-Trichlorophenol         | 100            | 89.7          |                  | ug/L |   | 90   | 37 - 144        |
| 2,4-Dichlorophenol            | 100            | 84.1          |                  | ug/L |   | 84   | 39 - 135        |
| 2,4-Dimethylphenol            | 100            | 86.4          |                  | ug/L |   | 86   | 32 - 119        |
| 2,4-Dinitrophenol             | 100            | 98.2          |                  | ug/L |   | 98   | 1 - 191         |
| 2,4-Dinitrotoluene            | 100            | 106           |                  | ug/L |   | 106  | 39 - 139        |
| 2,6-Dinitrotoluene            | 100            | 107           |                  | ug/L |   | 107  | 50 - 158        |
| 2-Chloronaphthalene           | 100            | 91.7          |                  | ug/L |   | 92   | 60 - 118        |
| 2-Chlorophenol                | 100            | 70.9          |                  | ug/L |   | 71   | 23 - 134        |
| 2-Nitrophenol                 | 100            | 86.8          |                  | ug/L |   | 87   | 29 - 182        |
| 3,3'-Dichlorobenzidine        | 100            | 96.5          |                  | ug/L |   | 97   | 1 - 262         |
| 4,6-Dinitro-2-methylphenol    | 100            | 104           |                  | ug/L |   | 104  | 1 - 181         |
| 4-Bromophenyl phenyl ether    | 100            | 99.8          |                  | ug/L |   | 100  | 53 - 127        |
| 4-Chloro-3-methylphenol       | 100            | 87.9          |                  | ug/L |   | 88   | 22 - 147        |
| 4-Chlorophenyl phenyl ether   | 100            | 100           |                  | ug/L |   | 100  | 25 - 158        |
| 4-Nitrophenol                 | 100            | 49.1          |                  | ug/L |   | 49   | 1 - 132         |
| Acenaphthene                  | 100            | 95.4          |                  | ug/L |   | 95   | 47 - 145        |
| Acenaphthylene                | 100            | 98.5          |                  | ug/L |   | 99   | 33 - 145        |
| Anthracene                    | 100            | 99.5          |                  | ug/L |   | 100  | 27 - 133        |
| Benzo[a]anthracene            | 100            | 100           |                  | ug/L |   | 100  | 33 - 143        |
| Benzo[a]pyrene                | 100            | 92.3          |                  | ug/L |   | 92   | 17 - 163        |
| Benzo[b]fluoranthene          | 100            | 81.4          |                  | ug/L |   | 81   | 24 - 159        |
| Benzo[g,h,i]perylene          | 100            | 110           |                  | ug/L |   | 110  | 1 - 219         |
| Benzo[k]fluoranthene          | 100            | 75.7          |                  | ug/L |   | 76   | 11 - 162        |
| bis (2-chloroisopropyl) ether | 100            | 79.5          |                  | ug/L |   | 80   | 36 - 166        |
| Bis(2-chloroethoxy)methane    | 100            | 88.9          |                  | ug/L |   | 89   | 33 - 184        |
| Bis(2-chloroethyl)ether       | 100            | 81.8          |                  | ug/L |   | 82   | 12 - 158        |
| Bis(2-ethylhexyl) phthalate   | 100            | 118           |                  | ug/L |   | 118  | 8 - 158         |
| Butyl benzyl phthalate        | 100            | 119           |                  | ug/L |   | 119  | 1 - 152         |
| Chrysene                      | 100            | 94.1          |                  | ug/L |   | 94   | 17 - 168        |
| Dibenz(a,h)anthracene         | 100            | 101           |                  | ug/L |   | 101  | 1 - 227         |
| Diethyl phthalate             | 100            | 116           | *                | ug/L |   | 116  | 1 - 114         |
| Dimethyl phthalate            | 100            | 102           |                  | ug/L |   | 102  | 1 - 112         |
| Di-n-butyl phthalate          | 100            | 121           | *                | ug/L |   | 121  | 1 - 118         |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-60131/2-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Di-n-octyl phthalate      | 100         | 125        |               | ug/L |   | 125  | 4 - 146      |
| Fluoranthene              | 100         | 98.9       |               | ug/L |   | 99   | 26 - 137     |
| Fluorene                  | 100         | 100        |               | ug/L |   | 100  | 59 - 121     |
| Hexachlorobenzene         | 100         | 99.2       |               | ug/L |   | 99   | 1 - 152      |
| Hexachlorocyclopentadiene | 100         | 78.8       |               | ug/L |   | 79   | 5 - 120      |
| Hexachloroethane          | 100         | 65.4       |               | ug/L |   | 65   | 40 - 113     |
| Indeno[1,2,3-cd]pyrene    | 100         | 104        |               | ug/L |   | 104  | 1 - 171      |
| Isophorone                | 100         | 99.3       |               | ug/L |   | 99   | 21 - 196     |
| Naphthalene               | 100         | 85.2       |               | ug/L |   | 85   | 21 - 133     |
| Nitrobenzene              | 100         | 88.8       |               | ug/L |   | 89   | 35 - 180     |
| N-Nitrosodi-n-propylamine | 100         | 98.7       |               | ug/L |   | 99   | 1 - 230      |
| N-Nitrosodiphenylamine    | 100         | 105        |               | ug/L |   | 105  | 54 - 125     |
| Pentachlorophenol         | 100         | 102        |               | ug/L |   | 102  | 14 - 176     |
| Phenanthrene              | 100         | 97.6       |               | ug/L |   | 98   | 54 - 120     |
| Phenol                    | 100         | 35.6       |               | ug/L |   | 36   | 5 - 112      |
| Pyrene                    | 100         | 96.2       |               | ug/L |   | 96   | 52 - 115     |

| Surrogate            | LCS %Recovery | LCS Qualifier | Limits   |
|----------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol | 104           |               | 52 - 151 |
| 2-Fluorobiphenyl     | 96            |               | 44 - 120 |
| 2-Fluorophenol       | 48            |               | 17 - 120 |
| Nitrobenzene-d5      | 94            |               | 42 - 120 |
| Phenol-d5            | 36            |               | 10 - 120 |
| p-Terphenyl-d14      | 95            |               | 22 - 125 |

Lab Sample ID: LCSD 480-60131/3-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-------|
| 1,2,4-Trichlorobenzene      | 100         | 76.2        |                | ug/L |   | 76   | 44 - 142     | 0   | 34    |
| 1,2-Dichlorobenzene         | 100         | 68.5        |                | ug/L |   | 69   | 32 - 129     | 2   | 38    |
| 1,3-Dichlorobenzene         | 100         | 66.6        |                | ug/L |   | 67   | 1 - 172      | 0   | 37    |
| 1,4-Dichlorobenzene         | 100         | 67.4        |                | ug/L |   | 67   | 20 - 124     | 0   | 40    |
| 2,4,6-Trichlorophenol       | 100         | 94.0        |                | ug/L |   | 94   | 37 - 144     | 5   | 20    |
| 2,4-Dichlorophenol          | 100         | 87.4        |                | ug/L |   | 87   | 39 - 135     | 4   | 23    |
| 2,4-Dimethylphenol          | 100         | 88.4        |                | ug/L |   | 88   | 32 - 119     | 2   | 18    |
| 2,4-Dinitrophenol           | 100         | 103         |                | ug/L |   | 103  | 1 - 191      | 5   | 29    |
| 2,4-Dinitrotoluene          | 100         | 107         |                | ug/L |   | 107  | 39 - 139     | 1   | 20    |
| 2,6-Dinitrotoluene          | 100         | 105         |                | ug/L |   | 105  | 50 - 158     | 2   | 17    |
| 2-Chloronaphthalene         | 100         | 90.6        |                | ug/L |   | 91   | 60 - 118     | 1   | 30    |
| 2-Chlorophenol              | 100         | 72.8        |                | ug/L |   | 73   | 23 - 134     | 3   | 26    |
| 2-Nitrophenol               | 100         | 87.2        |                | ug/L |   | 87   | 29 - 182     | 0   | 28    |
| 3,3'-Dichlorobenzidine      | 100         | 92.9        |                | ug/L |   | 93   | 1 - 262      | 4   | 31    |
| 4,6-Dinitro-2-methylphenol  | 100         | 105         |                | ug/L |   | 105  | 1 - 181      | 1   | 30    |
| 4-Bromophenyl phenyl ether  | 100         | 97.0        |                | ug/L |   | 97   | 53 - 127     | 3   | 16    |
| 4-Chloro-3-methylphenol     | 100         | 91.9        |                | ug/L |   | 92   | 22 - 147     | 4   | 16    |
| 4-Chlorophenyl phenyl ether | 100         | 97.8        |                | ug/L |   | 98   | 25 - 158     | 2   | 15    |
| 4-Nitrophenol               | 100         | 49.3        |                | ug/L |   | 49   | 1 - 132      | 0   | 24    |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-60131/3-A

Matrix: Water

Analysis Batch: 61211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60131

| Analyte                       | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Acenaphthene                  | 100         | 94.2        |                | ug/L |   | 94   | 47 - 145     | 1   | 25        |
| Acenaphthylene                | 100         | 99.6        |                | ug/L |   | 100  | 33 - 145     | 1   | 22        |
| Anthracene                    | 100         | 102         |                | ug/L |   | 102  | 27 - 133     | 2   | 15        |
| Benzo[a]anthracene            | 100         | 102         |                | ug/L |   | 102  | 33 - 143     | 1   | 15        |
| Benzo[a]pyrene                | 100         | 93.0        |                | ug/L |   | 93   | 17 - 163     | 1   | 15        |
| Benzo[b]fluoranthene          | 100         | 85.1        |                | ug/L |   | 85   | 24 - 159     | 4   | 17        |
| Benzo[g,h,i]perylene          | 100         | 109         |                | ug/L |   | 109  | 1 - 219      | 0   | 19        |
| Benzo[k]fluoranthene          | 100         | 75.5        |                | ug/L |   | 76   | 11 - 162     | 0   | 19        |
| bis (2-chloroisopropyl) ether | 100         | 79.0        |                | ug/L |   | 79   | 36 - 166     | 1   | 36        |
| Bis(2-chloroethoxy)methane    | 100         | 88.7        |                | ug/L |   | 89   | 33 - 184     | 0   | 23        |
| Bis(2-chloroethyl)ether       | 100         | 81.7        |                | ug/L |   | 82   | 12 - 158     | 0   | 33        |
| Bis(2-ethylhexyl) phthalate   | 100         | 117         |                | ug/L |   | 117  | 8 - 158      | 1   | 15        |
| Butyl benzyl phthalate        | 100         | 117         |                | ug/L |   | 117  | 1 - 152      | 2   | 15        |
| Chrysene                      | 100         | 93.8        |                | ug/L |   | 94   | 17 - 168     | 0   | 15        |
| Dibenz(a,h)anthracene         | 100         | 101         |                | ug/L |   | 101  | 1 - 227      | 1   | 18        |
| Diethyl phthalate             | 100         | 116         | *              | ug/L |   | 116  | 1 - 114      | 0   | 15        |
| Dimethyl phthalate            | 100         | 104         |                | ug/L |   | 104  | 1 - 112      | 2   | 15        |
| Di-n-butyl phthalate          | 100         | 122         | *              | ug/L |   | 122  | 1 - 118      | 1   | 15        |
| Di-n-octyl phthalate          | 100         | 126         |                | ug/L |   | 126  | 4 - 146      | 1   | 15        |
| Fluoranthene                  | 100         | 101         |                | ug/L |   | 101  | 26 - 137     | 2   | 15        |
| Fluorene                      | 100         | 101         |                | ug/L |   | 101  | 59 - 121     | 1   | 18        |
| Hexachlorobenzene             | 100         | 97.1        |                | ug/L |   | 97   | 1 - 152      | 2   | 15        |
| Hexachlorocyclopentadiene     | 100         | 79.2        |                | ug/L |   | 79   | 5 - 120      | 1   | 50        |
| Hexachloroethane              | 100         | 63.9        |                | ug/L |   | 64   | 40 - 113     | 2   | 43        |
| Indeno[1,2,3-cd]pyrene        | 100         | 103         |                | ug/L |   | 103  | 1 - 171      | 1   | 17        |
| Isophorone                    | 100         | 101         |                | ug/L |   | 101  | 21 - 196     | 1   | 21        |
| Naphthalene                   | 100         | 85.2        |                | ug/L |   | 85   | 21 - 133     | 0   | 31        |
| Nitrobenzene                  | 100         | 90.1        |                | ug/L |   | 90   | 35 - 180     | 1   | 27        |
| N-Nitrosodi-n-propylamine     | 100         | 98.5        |                | ug/L |   | 99   | 1 - 230      | 0   | 23        |
| N-Nitrosodiphenylamine        | 100         | 102         |                | ug/L |   | 102  | 54 - 125     | 3   | 15        |
| Pentachlorophenol             | 100         | 101         |                | ug/L |   | 101  | 14 - 176     | 1   | 21        |
| Phenanthrene                  | 100         | 98.7        |                | ug/L |   | 99   | 54 - 120     | 1   | 16        |
| Phenol                        | 100         | 35.3        |                | ug/L |   | 35   | 5 - 112      | 1   | 36        |
| Pyrene                        | 100         | 98.4        |                | ug/L |   | 98   | 52 - 115     | 2   | 15        |

| Surrogate            | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol | 106            |                | 52 - 151 |
| 2-Fluorobiphenyl     | 97             |                | 44 - 120 |
| 2-Fluorophenol       | 51             |                | 17 - 120 |
| Nitrobenzene-d5      | 95             |                | 42 - 120 |
| Phenol-d5            | 36             |                | 10 - 120 |
| p-Terphenyl-d14      | 102            |                | 22 - 125 |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-18659-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-60080/1

Matrix: Water

Analysis Batch: 60080

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL  | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND           |                 | 4.0 | 4.0 | mg/L |   |          | 04/17/12 22:22 | 1       |

Lab Sample ID: LCS 480-60080/2

Matrix: Water

Analysis Batch: 60080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Suspended Solids | 217            | 211.6         |                  | mg/L |   | 97   | 88 - 110        |

Lab Sample ID: 480-18659-5 DU

Matrix: Water

Analysis Batch: 60080

Client Sample ID: COMP 041612

Prep Type: Total/NA

| Analyte                | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD  | RPD<br>Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|------|--------------|
| Total Suspended Solids | 61.6             |                     | 71.20        |                 | mg/L |   | 14.0 | 15           |

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-59933/1

Matrix: Water

Analysis Batch: 59933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| pH      | 7.00           | 7.040         |                  | SU   |   | 101  | 99 - 101        |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

### GC/MS VOA

#### Analysis Batch: 60196

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 480-18659-5     | COMP 041612        | Total/NA  | Water  | 624    |            |
| 480-18659-6     | 041612-TB          | Total/NA  | Water  | 624    |            |
| LCS 480-60196/4 | Lab Control Sample | Total/NA  | Water  | 624    |            |
| MB 480-60196/5  | Method Blank       | Total/NA  | Water  | 624    |            |

### GC/MS Semi VOA

#### Prep Batch: 60131

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 480-18659-5        | COMP 041612            | Total/NA  | Water  | 625    |            |
| LCS 480-60131/2-A  | Lab Control Sample     | Total/NA  | Water  | 625    |            |
| LCSD 480-60131/3-A | Lab Control Sample Dup | Total/NA  | Water  | 625    |            |
| MB 480-60131/1-A   | Method Blank           | Total/NA  | Water  | 625    |            |

#### Analysis Batch: 61211

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 480-18659-5        | COMP 041612            | Total/NA  | Water  | 625    | 60131      |
| LCS 480-60131/2-A  | Lab Control Sample     | Total/NA  | Water  | 625    | 60131      |
| LCSD 480-60131/3-A | Lab Control Sample Dup | Total/NA  | Water  | 625    | 60131      |
| MB 480-60131/1-A   | Method Blank           | Total/NA  | Water  | 625    | 60131      |

### General Chemistry

#### Analysis Batch: 59933

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|-----------------|--------------------|-----------|--------|--------------|------------|
| 480-18659-5     | COMP 041612        | Total/NA  | Water  | SM 4500 H+ B |            |
| LCS 480-59933/1 | Lab Control Sample | Total/NA  | Water  | SM 4500 H+ B |            |

#### Analysis Batch: 60080

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-----------------|--------------------|-----------|--------|----------|------------|
| 480-18659-5     | COMP 041612        | Total/NA  | Water  | SM 2540D |            |
| 480-18659-5 DU  | COMP 041612        | Total/NA  | Water  | SM 2540D |            |
| LCS 480-60080/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |
| MB 480-60080/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |

## Lab Chronicle

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

**Client Sample ID: COMP 041612**

**Date Collected: 04/16/12 15:00**

**Date Received: 04/16/12 15:45**

**Lab Sample ID: 480-18659-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 624          |     | 10              | 60196        | 04/18/12 13:11       | TRB     | TAL BUF |
| Total/NA  | Prep       | 625          |     |                 | 60131        | 04/18/12 06:58       | TR      | TAL BUF |
| Total/NA  | Analysis   | 625          |     | 5               | 61211        | 04/24/12 21:28       | AM      | TAL BUF |
| Total/NA  | Analysis   | SM 4500 H+ B |     | 1               | 59933        | 04/16/12 21:50       | KJ      | TAL BUF |
| Total/NA  | Analysis   | SM 2540D     |     | 1               | 60080        | 04/17/12 22:50       | KS      | TAL BUF |

**Client Sample ID: 041612-TB**

**Date Collected: 04/16/12 15:00**

**Date Received: 04/16/12 15:45**

**Lab Sample ID: 480-18659-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 624          |     | 1               | 60196        | 04/18/12 13:34       | TRB     | TAL BUF |

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

### Laboratory: TestAmerica Buffalo

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

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ      | State Program | 6          | 88-0686          | 07-06-13        |
| California        | NELAC         | 9          | 1169CA           | 09-30-12        |
| Connecticut       | State Program | 1          | PH-0568          | 09-30-14        |
| Florida           | NELAC         | 4          | E87672           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 03-31-13        |
| Georgia           | State Program | 4          | 956              | 06-30-13        |
| Georgia           | State Program | 4          | 956              | 03-31-12        |
| Illinois          | NELAC         | 5          | 200003           | 09-30-12        |
| Iowa              | State Program | 7          | 374              | 03-01-13        |
| Kansas            | NELAC         | 7          | E-10187          | 01-31-13        |
| Kentucky          | State Program | 4          | 90029            | 12-31-12        |
| Kentucky (UST)    | State Program | 4          | 30               | 04-01-13        |
| Louisiana         | NELAC         | 6          | 02031            | 06-30-13        |
| Maine             | State Program | 1          | NY00044          | 12-04-12        |
| Maryland          | State Program | 3          | 294              | 03-31-13        |
| Massachusetts     | State Program | 1          | M-NY044          | 06-30-13        |
| Michigan          | State Program | 5          | 9937             | 04-01-13        |
| Minnesota         | NELAC         | 5          | 036-999-337      | 12-31-12        |
| New Hampshire     | NELAC         | 1          | 2973             | 09-11-13        |
| New Hampshire     | NELAC         | 1          | 2337             | 11-17-12        |
| New Jersey        | NELAC         | 2          | NY455            | 06-30-13        |
| New York          | NELAC         | 2          | 10026            | 03-31-13        |
| North Dakota      | State Program | 8          | R-176            | 03-31-13        |
| Oklahoma          | State Program | 6          | 9421             | 08-31-13        |
| Oregon            | NELAC         | 10         | NY200003         | 06-09-13        |
| Pennsylvania      | NELAC         | 3          | 68-00281         | 07-31-13        |
| Tennessee         | State Program | 4          | TN02970          | 04-01-13        |
| Texas             | NELAC         | 6          | T104704412-11-2  | 07-31-13        |
| USDA              | Federal       |            | P330-11-00386    | 11-22-14        |
| Virginia          | NELAC         | 3          | 460185           | 09-14-13        |
| Washington        | State Program | 10         | C784             | 02-10-13        |
| West Virginia DEP | State Program | 3          | 252              | 09-30-13        |
| Wisconsin         | State Program | 5          | 998310390        | 08-31-13        |

## Method Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

| Method       | Method Description                     | Protocol  | Laboratory |
|--------------|----------------------------------------|-----------|------------|
| 624          | Volatile Organic Compounds (GC/MS)     | 40CFR136A | TAL BUF    |
| 625          | Semivolatile Organic Compounds (GC/MS) | 40CFR136A | TAL BUF    |
| SM 2540D     | Solids, Total Suspended (TSS)          | SM        | TAL BUF    |
| SM 4500 H+ B | pH                                     | SM        | TAL BUF    |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-18659-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 480-18659-5   | COMP 041612      | Water  | 04/16/12 15:00 | 04/16/12 15:45 |
| 480-18659-6   | 041612-TB        | Water  | 04/16/12 15:00 | 04/16/12 15:45 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Page 23 of 24

## Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-18659-1

Login Number: 18659

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

| Question                                                                         | Answer | Comment  |
|----------------------------------------------------------------------------------|--------|----------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |          |
| The cooler's custody seal, if present, is intact.                                | True   |          |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |          |
| Samples were received on ice.                                                    | True   |          |
| Cooler Temperature is acceptable.                                                | True   |          |
| Cooler Temperature is recorded.                                                  | True   |          |
| COC is present.                                                                  | True   |          |
| COC is filled out in ink and legible.                                            | True   |          |
| COC is filled out with all pertinent information.                                | True   |          |
| Is the Field Sampler's name present on COC?                                      | True   |          |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |          |
| Samples are received within Holding Time.                                        | True   |          |
| Sample containers have legible labels.                                           | True   |          |
| Containers are not broken or leaking.                                            | True   |          |
| Sample collection date/times are provided.                                       | True   |          |
| Appropriate sample containers are used.                                          | True   |          |
| Sample bottles are completely filled.                                            | True   |          |
| Sample Preservation Verified                                                     | True   |          |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |          |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |          |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |          |
| Multiphasic samples are not present.                                             | True   |          |
| Samples do not require splitting or compositing.                                 | False  | lab comp |
| Sampling Company provided.                                                       | False  |          |
| Samples received within 48 hours of sampling.                                    | True   |          |
| Samples requiring field filtration have been filtered in the field.              | True   |          |
| Chlorine Residual checked.                                                       | True   |          |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-25019-1

Client Project/Site: Honeywell - Alltiff GW Monitoring

Sampling Event: Honeywell - Alltiff GW Monitoring (10)

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. John Mojka



Authorized for release by:

9/21/2012 3:17:52 PM

Robert Wienke

Project Administrator

[robert.wienke@testamericainc.com](mailto:robert.wienke@testamericainc.com)

Designee for

John Schove

Project Manager I

[john.schove@testamericainc.com](mailto:john.schove@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 2  |
| Definitions/Glossary . . . . .   | 3  |
| Case Narrative . . . . .         | 4  |
| Detection Summary . . . . .      | 6  |
| Client Sample Results . . . . .  | 7  |
| Surrogate Summary . . . . .      | 16 |
| QC Sample Results . . . . .      | 18 |
| QC Association Summary . . . . . | 25 |
| Lab Chronicle . . . . .          | 28 |
| Certification Summary . . . . .  | 30 |
| Method Summary . . . . .         | 31 |
| Sample Summary . . . . .         | 32 |
| Chain of Custody . . . . .       | 33 |
| Receipt Checklists . . . . .     | 34 |



## Definitions/Glossary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |
| F         | MS or MSD exceeds the control limits                     |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |
| X         | Surrogate is outside control limits                      |

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |
| X         | Surrogate is outside control limits                      |

#### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| B         | Compound was found in the blank and sample.                                                                                                               |
| 4         | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Case Narrative

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Job ID: 480-25019-1

Laboratory: TestAmerica Buffalo

#### Narrative

#### Job Narrative 480-25019-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/12/2012 3:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.6° C, 2.9° C, 3.0° C and 3.2° C.

#### GC/MS VOA

Method(s) 8260B: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: FDUP-Sump 4-091212 (480-25019-6), Sump 1-091212 (480-25019-2), Sump 2-091212 (480-25019-3), Sump 3-091212 (480-25019-4), Sump 4-091212 (480-25019-5), Sump 4-091212 MS (480-25019-5 MS), Sump 4-091212 SD (480-25019-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following compound was outside control limits in the continuing calibration verification (CCV) associated with batch 80570: Acetone. This compound is not classified as Calibration Check Compound (CCC) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80570 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270C: The following samples contained one acid and/ or one base surrogate outside acceptance limits: FDUP-Sump 4-091212 (480-25019-6), Sump 4-091212 (480-25019-5), Sump Comp-091212 (480-25019-1). The laboratory's SOP allows one acid and/ or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 608: The continuing calibration verification (CCV) for Aroclor 1260 associated with batch 80433 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 608: All primary data is reported from the ZB-5 column.

Method(s) 608: For the method 608, the initial calibration criteria is based upon the total Aroclor value. The %RSD in some of the individual biphenyl peaks may exceed 10%, though the total Aroclor amount is still within method quality control criteria.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 608: The surrogate percent difference in the associated continuing calibration verification (CCV 480-80433/47) for Decachlorobiphenyl exceeded 15% on the ZB-5 column, indicating a high bias.

Method(s) 8081A: All primary data is reported from the RTX-CLPI column.

Method(s) 8081A: One surrogate recovery for the following sample was outside control limits: Sump 4-091212 (480-25019-5). The second surrogate recovery is within acceptance limits.

No other analytical or quality issues were noted.

## Case Narrative

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

---

### Job ID: 480-25019-1 (Continued)

---

#### Laboratory: TestAmerica Buffalo (Continued)

##### Metals

Method(s) 6020: The Method Blank for batch 480-80451 contained total arsenic and cadmium above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples FDUP-Sump 4-091212 (480-25019-6), Sump 4-091212 (480-25019-5), Sump Comp-091212 (480-25019-1) was not performed.

No other analytical or quality issues were noted.

##### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Client Sample ID: Sump Comp-091212

### Lab Sample ID: 480-25019-1

| Analyte         | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| 4-Chloroaniline | 11     |           | 4.8    | 0.56    | ug/L | 1       |   | 8270C  | Total/NA  |
| Chromium        | 0.22   |           | 0.0040 | 0.0010  | mg/L | 1       |   | 6010B  | Total/NA  |
| Lead            | 0.023  |           | 0.0050 | 0.0030  | mg/L | 1       |   | 6010B  | Total/NA  |
| Iron            | 11.3   |           | 0.050  | 0.019   | mg/L | 1       |   | 6010B  | Total/NA  |
| Manganese       | 3.8    |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010B  | Total/NA  |
| Antimony        | 0.77   | J         | 1.0    | 0.15    | ug/L | 1       |   | 6020   | Total/NA  |
| Arsenic         | 17.9   | B         | 1.0    | 0.078   | ug/L | 1       |   | 6020   | Total/NA  |
| Cadmium         | 0.22   | J B       | 0.50   | 0.018   | ug/L | 1       |   | 6020   | Total/NA  |

### Client Sample ID: Sump 1-091212

### Lab Sample ID: 480-25019-2

| Analyte       | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Chlorobenzene | 11     |           | 5.0 | 3.8 | ug/L | 5       |   | 8260B  | Total/NA  |

### Client Sample ID: Sump 2-091212

### Lab Sample ID: 480-25019-3

| Analyte       | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Benzene       | 22     |           | 5.0 | 2.1 | ug/L | 5       |   | 8260B  | Total/NA  |
| Chlorobenzene | 150    |           | 5.0 | 3.8 | ug/L | 5       |   | 8260B  | Total/NA  |

### Client Sample ID: Sump 3-091212

### Lab Sample ID: 480-25019-4

No Detections

### Client Sample ID: Sump 4-091212

### Lab Sample ID: 480-25019-5

| Analyte       | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Chlorobenzene | 11     |           | 5.0    | 3.8     | ug/L | 5       |   | 8260B  | Total/NA  |
| Chromium      | 0.0033 | J         | 0.0040 | 0.0010  | mg/L | 1       |   | 6010B  | Total/NA  |
| Iron          | 2.6    |           | 0.050  | 0.019   | mg/L | 1       |   | 6010B  | Total/NA  |
| Manganese     | 5.7    |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010B  | Total/NA  |
| Antimony      | 0.73   | J         | 1.0    | 0.15    | ug/L | 1       |   | 6020   | Total/NA  |
| Arsenic       | 11.9   | B         | 1.0    | 0.078   | ug/L | 1       |   | 6020   | Total/NA  |
| Cadmium       | 0.23   | J B       | 0.50   | 0.018   | ug/L | 1       |   | 6020   | Total/NA  |

### Client Sample ID: FDUP-Sump 4-091212

### Lab Sample ID: 480-25019-6

| Analyte       | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|---------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Chlorobenzene | 40     |           | 5.0    | 3.8     | ug/L | 5       |   | 8260B  | Total/NA  |
| Chromium      | 0.0026 | J         | 0.0040 | 0.0010  | mg/L | 1       |   | 6010B  | Total/NA  |
| Iron          | 6.2    |           | 0.050  | 0.019   | mg/L | 1       |   | 6010B  | Total/NA  |
| Manganese     | 4.6    |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010B  | Total/NA  |
| Antimony      | 0.53   | J         | 1.0    | 0.15    | ug/L | 1       |   | 6020   | Total/NA  |
| Arsenic       | 14.1   | B         | 1.0    | 0.078   | ug/L | 1       |   | 6020   | Total/NA  |
| Cadmium       | 0.21   | J B       | 0.50   | 0.018   | ug/L | 1       |   | 6020   | Total/NA  |

### Client Sample ID: TRIP BLANK

### Lab Sample ID: 480-25019-7

No Detections

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump Comp-091212**

**Lab Sample ID: 480-25019-1**

**Date Collected: 09/12/12 12:07**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline  | 11        |           | 4.8      | 0.56 | ug/L |   | 09/13/12 14:58 | 09/14/12 19:28 | 1       |
| Naphthalene      | 4.8       | U         | 4.8      | 0.72 | ug/L |   | 09/13/12 14:58 | 09/14/12 19:28 | 1       |
| Surrogate        | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| Nitrobenzene-d5  | 80        |           | 46 - 120 |      |      |   | 09/13/12 14:58 | 09/14/12 19:28 | 1       |
| 2-Fluorobiphenyl | 87        |           | 48 - 120 |      |      |   | 09/13/12 14:58 | 09/14/12 19:28 | 1       |
| p-Terphenyl-d14  | 58        | X         | 67 - 150 |      |      |   | 09/13/12 14:58 | 09/14/12 19:28 | 1       |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte                | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016               | 0.057     | U         | 0.057    | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1221               | 0.057     | U         | 0.057    | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1232               | 0.057     | U         | 0.057    | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1242               | 0.057     | U         | 0.057    | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1248               | 0.057     | U         | 0.057    | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1254               | 0.057     | U         | 0.057    | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| PCB-1260               | 0.057     | U         | 0.057    | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 37        |           | 10 - 158 |       |      |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |
| Tetrachloro-m-xylene   | 80        |           | 18 - 146 |       |      |   | 09/13/12 15:20 | 09/15/12 08:59 | 1       |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD               | 0.047     | U         | 0.047    | 0.0087 | ug/L |   | 09/13/12 15:12 | 09/15/12 10:52 | 1       |
| 4,4'-DDE               | 0.047     | U         | 0.047    | 0.011  | ug/L |   | 09/13/12 15:12 | 09/15/12 10:52 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |      |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 27        |           | 16 - 120 |        |      |   | 09/13/12 15:12 | 09/15/12 10:52 | 1       |
| Tetrachloro-m-xylene   | 47        |           | 35 - 120 |        |      |   | 09/13/12 15:12 | 09/15/12 10:52 | 1       |

## Method: 6010B - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | 0.22   |           | 0.0040 | 0.0010  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:34 | 1       |
| Lead      | 0.023  |           | 0.0050 | 0.0030  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:34 | 1       |
| Iron      | 11.3   |           | 0.050  | 0.019   | mg/L |   | 09/13/12 08:45 | 09/13/12 16:34 | 1       |
| Manganese | 3.8    |           | 0.0030 | 0.00040 | mg/L |   | 09/13/12 08:45 | 09/13/12 16:34 | 1       |

## Method: 6020 - Metals (ICP/MS)

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 0.77   | J         | 1.0  | 0.15  | ug/L |   | 09/14/12 07:20 | 09/15/12 03:58 | 1       |
| Arsenic  | 17.9   | B         | 1.0  | 0.078 | ug/L |   | 09/14/12 07:20 | 09/15/12 03:58 | 1       |
| Cadmium  | 0.22   | J B       | 0.50 | 0.018 | ug/L |   | 09/14/12 07:20 | 09/15/12 03:58 | 1       |

## Method: 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00020 | U         | 0.00020 | 0.00012 | mg/L |   | 09/13/12 08:20 | 09/13/12 12:50 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 1-091212**

**Lab Sample ID: 480-25019-2**

**Date Collected: 09/12/12 12:01**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte              | Result    | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene  | 5.0       | U         | 5.0 | 4.0 | ug/L |   |          | 09/14/12 15:01 | 5       |
| 1,4-Dichlorobenzene  | 5.0       | U         | 5.0 | 4.2 | ug/L |   |          | 09/14/12 15:01 | 5       |
| Benzene              | 5.0       | U         | 5.0 | 2.1 | ug/L |   |          | 09/14/12 15:01 | 5       |
| <b>Chlorobenzene</b> | <b>11</b> |           | 5.0 | 3.8 | ug/L |   |          | 09/14/12 15:01 | 5       |
| Ethylbenzene         | 5.0       | U         | 5.0 | 3.7 | ug/L |   |          | 09/14/12 15:01 | 5       |
| Xylenes, Total       | 10        | U         | 10  | 3.3 | ug/L |   |          | 09/14/12 15:01 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 66 - 137 |          | 09/14/12 15:01 | 5       |
| Toluene-d8 (Surr)            | 105       |           | 71 - 126 |          | 09/14/12 15:01 | 5       |
| 4-Bromofluorobenzene (Surr)  | 107       |           | 73 - 120 |          | 09/14/12 15:01 | 5       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 2-091212**

**Lab Sample ID: 480-25019-3**

**Date Collected: 09/12/12 11:39**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte              | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene  | 5.0        | U         | 5.0 | 4.0 | ug/L |   |          | 09/14/12 15:24 | 5       |
| 1,4-Dichlorobenzene  | 5.0        | U         | 5.0 | 4.2 | ug/L |   |          | 09/14/12 15:24 | 5       |
| <b>Benzene</b>       | <b>22</b>  |           | 5.0 | 2.1 | ug/L |   |          | 09/14/12 15:24 | 5       |
| <b>Chlorobenzene</b> | <b>150</b> |           | 5.0 | 3.8 | ug/L |   |          | 09/14/12 15:24 | 5       |
| Ethylbenzene         | 5.0        | U         | 5.0 | 3.7 | ug/L |   |          | 09/14/12 15:24 | 5       |
| Xylenes, Total       | 10         | U         | 10  | 3.3 | ug/L |   |          | 09/14/12 15:24 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 66 - 137 |          | 09/14/12 15:24 | 5       |
| Toluene-d8 (Surr)            | 106       |           | 71 - 126 |          | 09/14/12 15:24 | 5       |
| 4-Bromofluorobenzene (Surr)  | 108       |           | 73 - 120 |          | 09/14/12 15:24 | 5       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 3-091212**

**Lab Sample ID: 480-25019-4**

**Date Collected: 09/12/12 11:19**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte             | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | 5.0    | U         | 5.0 | 4.0 | ug/L |   |          | 09/14/12 15:48 | 5       |
| 1,4-Dichlorobenzene | 5.0    | U         | 5.0 | 4.2 | ug/L |   |          | 09/14/12 15:48 | 5       |
| Benzene             | 5.0    | U         | 5.0 | 2.1 | ug/L |   |          | 09/14/12 15:48 | 5       |
| Chlorobenzene       | 5.0    | U         | 5.0 | 3.8 | ug/L |   |          | 09/14/12 15:48 | 5       |
| Ethylbenzene        | 5.0    | U         | 5.0 | 3.7 | ug/L |   |          | 09/14/12 15:48 | 5       |
| Xylenes, Total      | 10     | U         | 10  | 3.3 | ug/L |   |          | 09/14/12 15:48 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 66 - 137 |          | 09/14/12 15:48 | 5       |
| Toluene-d8 (Surr)            | 105       |           | 71 - 126 |          | 09/14/12 15:48 | 5       |
| 4-Bromofluorobenzene (Surr)  | 111       |           | 73 - 120 |          | 09/14/12 15:48 | 5       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 4-091212**

**Lab Sample ID: 480-25019-5**

**Date Collected: 09/12/12 09:59**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte             | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | 5.0    | U         | 5.0 | 4.0 | ug/L |   |          | 09/14/12 16:11 | 5       |
| 1,4-Dichlorobenzene | 5.0    | U         | 5.0 | 4.2 | ug/L |   |          | 09/14/12 16:11 | 5       |
| Benzene             | 5.0    | U         | 5.0 | 2.1 | ug/L |   |          | 09/14/12 16:11 | 5       |
| Chlorobenzene       | 11     |           | 5.0 | 3.8 | ug/L |   |          | 09/14/12 16:11 | 5       |
| Ethylbenzene        | 5.0    | U         | 5.0 | 3.7 | ug/L |   |          | 09/14/12 16:11 | 5       |
| Xylenes, Total      | 10     | U         | 10  | 3.3 | ug/L |   |          | 09/14/12 16:11 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 66 - 137 |          | 09/14/12 16:11 | 5       |
| Toluene-d8 (Surr)            | 103       |           | 71 - 126 |          | 09/14/12 16:11 | 5       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 73 - 120 |          | 09/14/12 16:11 | 5       |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline | 4.7    | U         | 4.7 | 0.56 | ug/L |   | 09/13/12 14:58 | 09/14/12 19:52 | 1       |
| Naphthalene     | 4.7    | U         | 4.7 | 0.72 | ug/L |   | 09/13/12 14:58 | 09/14/12 19:52 | 1       |

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5  | 78        |           | 46 - 120 | 09/13/12 14:58 | 09/14/12 19:52 | 1       |
| 2-Fluorobiphenyl | 85        |           | 48 - 120 | 09/13/12 14:58 | 09/14/12 19:52 | 1       |
| p-Terphenyl-d14  | 59        | X         | 67 - 150 | 09/13/12 14:58 | 09/14/12 19:52 | 1       |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte  | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1221 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1232 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1242 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1248 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1254 | 0.057  | U         | 0.057 | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| PCB-1260 | 0.057  | U         | 0.057 | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:15 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 48        |           | 10 - 158 | 09/13/12 15:20 | 09/15/12 09:15 | 1       |
| Tetrachloro-m-xylene   | 80        |           | 18 - 146 | 09/13/12 15:20 | 09/15/12 09:15 | 1       |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD | 0.047  | U         | 0.047 | 0.0087 | ug/L |   | 09/13/12 15:12 | 09/15/12 11:33 | 1       |
| 4,4'-DDE | 0.047  | U         | 0.047 | 0.011  | ug/L |   | 09/13/12 15:12 | 09/15/12 11:33 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 10        | X         | 16 - 120 | 09/13/12 15:12 | 09/15/12 11:33 | 1       |
| Tetrachloro-m-xylene   | 61        |           | 35 - 120 | 09/13/12 15:12 | 09/15/12 11:33 | 1       |

## Method: 6010B - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | 0.0033 | J         | 0.0040 | 0.0010  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:36 | 1       |
| Lead      | 0.0050 | U         | 0.0050 | 0.0030  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:36 | 1       |
| Iron      | 2.6    |           | 0.050  | 0.019   | mg/L |   | 09/13/12 08:45 | 09/13/12 16:36 | 1       |
| Manganese | 5.7    |           | 0.0030 | 0.00040 | mg/L |   | 09/13/12 08:45 | 09/13/12 16:36 | 1       |

## Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 4-091212**

**Lab Sample ID: 480-25019-5**

**Date Collected: 09/12/12 09:59**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

### Method: 6020 - Metals (ICP/MS)

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 0.73   | J         | 1.0  | 0.15  | ug/L |   | 09/14/12 07:20 | 09/15/12 04:04 | 1       |
| Arsenic  | 11.9   | B         | 1.0  | 0.078 | ug/L |   | 09/14/12 07:20 | 09/15/12 04:04 | 1       |
| Cadmium  | 0.23   | J B       | 0.50 | 0.018 | ug/L |   | 09/14/12 07:20 | 09/15/12 04:04 | 1       |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00020 | U         | 0.00020 | 0.00012 | mg/L |   | 09/13/12 08:20 | 09/13/12 12:51 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: FDUP-Sump 4-091212**

**Lab Sample ID: 480-25019-6**

**Date Collected: 09/12/12 10:37**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte             | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | 5.0    | U         | 5.0 | 4.0 | ug/L |   |          | 09/14/12 17:22 | 5       |
| 1,4-Dichlorobenzene | 5.0    | U         | 5.0 | 4.2 | ug/L |   |          | 09/14/12 17:22 | 5       |
| Benzene             | 5.0    | U         | 5.0 | 2.1 | ug/L |   |          | 09/14/12 17:22 | 5       |
| Chlorobenzene       | 40     |           | 5.0 | 3.8 | ug/L |   |          | 09/14/12 17:22 | 5       |
| Ethylbenzene        | 5.0    | U         | 5.0 | 3.7 | ug/L |   |          | 09/14/12 17:22 | 5       |
| Xylenes, Total      | 10     | U         | 10  | 3.3 | ug/L |   |          | 09/14/12 17:22 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 66 - 137 |          | 09/14/12 17:22 | 5       |
| Toluene-d8 (Surr)            | 102       |           | 71 - 126 |          | 09/14/12 17:22 | 5       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 73 - 120 |          | 09/14/12 17:22 | 5       |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline | 4.7    | U         | 4.7 | 0.56 | ug/L |   | 09/13/12 14:58 | 09/14/12 20:16 | 1       |
| Naphthalene     | 4.7    | U         | 4.7 | 0.72 | ug/L |   | 09/13/12 14:58 | 09/14/12 20:16 | 1       |

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5  | 89        |           | 46 - 120 | 09/13/12 14:58 | 09/14/12 20:16 | 1       |
| 2-Fluorobiphenyl | 94        |           | 48 - 120 | 09/13/12 14:58 | 09/14/12 20:16 | 1       |
| p-Terphenyl-d14  | 49        | X         | 67 - 150 | 09/13/12 14:58 | 09/14/12 20:16 | 1       |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte  | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1221 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1232 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1242 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1248 | 0.057  | U         | 0.057 | 0.036 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1254 | 0.057  | U         | 0.057 | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| PCB-1260 | 0.057  | U         | 0.057 | 0.029 | ug/L |   | 09/13/12 15:20 | 09/15/12 09:31 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 37        |           | 10 - 158 | 09/13/12 15:20 | 09/15/12 09:31 | 1       |
| Tetrachloro-m-xylene   | 74        |           | 18 - 146 | 09/13/12 15:20 | 09/15/12 09:31 | 1       |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD | 0.047  | U         | 0.047 | 0.0087 | ug/L |   | 09/13/12 15:12 | 09/15/12 12:14 | 1       |
| 4,4'-DDE | 0.047  | U         | 0.047 | 0.011  | ug/L |   | 09/13/12 15:12 | 09/15/12 12:14 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 20        |           | 16 - 120 | 09/13/12 15:12 | 09/15/12 12:14 | 1       |
| Tetrachloro-m-xylene   | 56        |           | 35 - 120 | 09/13/12 15:12 | 09/15/12 12:14 | 1       |

## Method: 6010B - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | 0.0026 | J         | 0.0040 | 0.0010  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:44 | 1       |
| Lead      | 0.0050 | U         | 0.0050 | 0.0030  | mg/L |   | 09/13/12 08:45 | 09/13/12 16:44 | 1       |
| Iron      | 6.2    |           | 0.050  | 0.019   | mg/L |   | 09/13/12 08:45 | 09/13/12 16:44 | 1       |
| Manganese | 4.6    |           | 0.0030 | 0.00040 | mg/L |   | 09/13/12 08:45 | 09/13/12 16:44 | 1       |

## Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: FDUP-Sump 4-091212**

**Lab Sample ID: 480-25019-6**

**Date Collected: 09/12/12 10:37**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

### Method: 6020 - Metals (ICP/MS)

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 0.53   | J         | 1.0  | 0.15  | ug/L |   | 09/14/12 07:20 | 09/15/12 04:45 | 1       |
| Arsenic  | 14.1   | B         | 1.0  | 0.078 | ug/L |   | 09/14/12 07:20 | 09/15/12 04:45 | 1       |
| Cadmium  | 0.21   | J B       | 0.50 | 0.018 | ug/L |   | 09/14/12 07:20 | 09/15/12 04:45 | 1       |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00020 | U         | 0.00020 | 0.00012 | mg/L |   | 09/13/12 08:20 | 09/13/12 12:59 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-25019-7**

**Date Collected: 09/12/12 10:45**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte             | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | 1.0    | U         | 1.0 | 0.79 | ug/L |   |          | 09/14/12 17:46 | 1       |
| 1,4-Dichlorobenzene | 1.0    | U         | 1.0 | 0.84 | ug/L |   |          | 09/14/12 17:46 | 1       |
| Benzene             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 09/14/12 17:46 | 1       |
| Chlorobenzene       | 1.0    | U         | 1.0 | 0.75 | ug/L |   |          | 09/14/12 17:46 | 1       |
| Ethylbenzene        | 1.0    | U         | 1.0 | 0.74 | ug/L |   |          | 09/14/12 17:46 | 1       |
| Xylenes, Total      | 2.0    | U         | 2.0 | 0.66 | ug/L |   |          | 09/14/12 17:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 66 - 137 |          | 09/14/12 17:46 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 71 - 126 |          | 09/14/12 17:46 | 1       |
| 4-Bromofluorobenzene (Surr)  | 111       |           | 73 - 120 |          | 09/14/12 17:46 | 1       |

# Surrogate Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-----------------|--------------------|------------------------------------------------|-----------------|-----------------|
|                 |                    | 12DCE<br>(66-137)                              | TOL<br>(71-126) | BFB<br>(73-120) |
| 480-25019-2     | Sump 1-091212      | 115                                            | 105             | 107             |
| 480-25019-3     | Sump 2-091212      | 110                                            | 106             | 108             |
| 480-25019-4     | Sump 3-091212      | 114                                            | 105             | 111             |
| 480-25019-5     | Sump 4-091212      | 110                                            | 103             | 103             |
| 480-25019-5 MS  | Sump 4-091212      | 112                                            | 104             | 106             |
| 480-25019-5 MSD | Sump 4-091212      | 113                                            | 106             | 109             |
| 480-25019-6     | FDUP-Sump 4-091212 | 112                                            | 102             | 103             |
| 480-25019-7     | TRIP BLANK         | 115                                            | 105             | 111             |
| LCS 480-80570/3 | Lab Control Sample | 115                                            | 109             | 107             |
| MB 480-80570/4  | Method Blank       | 110                                            | 105             | 102             |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-------------------|--------------------|------------------------------------------------|-----------------|-----------------|
|                   |                    | NBZ<br>(46-120)                                | FBP<br>(48-120) | TPH<br>(67-150) |
| 480-25019-1       | Sump Comp-091212   | 80                                             | 87              | 58 X            |
| 480-25019-5       | Sump 4-091212      | 78                                             | 85              | 59 X            |
| 480-25019-5 MS    | Sump 4-091212      | 90                                             | 93              | 69              |
| 480-25019-5 MSD   | Sump 4-091212      | 93                                             | 99              | 85              |
| 480-25019-6       | FDUP-Sump 4-091212 | 89                                             | 94              | 49 X            |
| LCS 480-80441/2-A | Lab Control Sample | 90                                             | 96              | 119             |
| MB 480-80441/1-A  | Method Blank       | 71                                             | 82              | 121             |

### Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = p-Terphenyl-d14

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|-------------------|--------------------|------------------------------------------------|------------------|------------------|------------------|
|                   |                    | DCB1<br>(10-158)                               | DCB2<br>(10-158) | TCX1<br>(18-146) | TCX2<br>(18-146) |
| 480-25019-1       | Sump Comp-091212   | 37                                             | 44               | 80               | 83               |
| 480-25019-5       | Sump 4-091212      | 48                                             | 55               | 80               | 85               |
| 480-25019-5 MS    | Sump 4-091212      | 33                                             | 45               | 97               | 96               |
| 480-25019-5 MSD   | Sump 4-091212      | 28                                             | 33               | 88               | 87               |
| 480-25019-6       | FDUP-Sump 4-091212 | 37                                             | 44               | 74               | 77               |
| LCS 480-80448/2-A | Lab Control Sample | 53                                             | 58               | 88               | 94               |
| MB 480-80448/1-A  | Method Blank       | 62                                             | 69               | 89               | 98               |

### Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

## Surrogate Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|-------------------|--------------------|------------------------------------------------|------------------|------------------|------------------|
|                   |                    | DCB1<br>(16-120)                               | DCB2<br>(16-120) | TCX1<br>(35-120) | TCX2<br>(35-120) |
| 480-25019-1       | Sump Comp-091212   | 27                                             | 24               | 47               | 55               |
| 480-25019-5       | Sump 4-091212      | 10 X                                           | 12 X             | 61               | 62               |
| 480-25019-5 MS    | Sump 4-091212      | 41                                             | 39               | 62               | 68               |
| 480-25019-5 MSD   | Sump 4-091212      | 44                                             | 42               | 62               | 67               |
| 480-25019-6       | FDUP-Sump 4-091212 | 20                                             | 21               | 56               | 60               |
| LCS 480-80446/2-A | Lab Control Sample | 48                                             | 52               | 72               | 72               |
| MB 480-80446/1-A  | Method Blank       | 63                                             | 67               | 77               | 76               |

**Surrogate Legend**

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-80570/4

Matrix: Water

Analysis Batch: 80570

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte             | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | 1.0          | U               | 1.0 | 0.79 | ug/L |   |          | 09/14/12 11:40 | 1       |
| 1,4-Dichlorobenzene | 1.0          | U               | 1.0 | 0.84 | ug/L |   |          | 09/14/12 11:40 | 1       |
| Benzene             | 1.0          | U               | 1.0 | 0.41 | ug/L |   |          | 09/14/12 11:40 | 1       |
| Chlorobenzene       | 1.0          | U               | 1.0 | 0.75 | ug/L |   |          | 09/14/12 11:40 | 1       |
| Ethylbenzene        | 1.0          | U               | 1.0 | 0.74 | ug/L |   |          | 09/14/12 11:40 | 1       |
| Xylenes, Total      | 2.0          | U               | 2.0 | 0.66 | ug/L |   |          | 09/14/12 11:40 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110             |                 | 66 - 137 |          | 09/14/12 11:40 | 1       |
| Toluene-d8 (Surr)            | 105             |                 | 71 - 126 |          | 09/14/12 11:40 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102             |                 | 73 - 120 |          | 09/14/12 11:40 | 1       |

Lab Sample ID: LCS 480-80570/3

Matrix: Water

Analysis Batch: 80570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,2-Dichlorobenzene | 25.0           | 27.1          |                  | ug/L |   | 108  | 77 - 120        |
| Benzene             | 25.0           | 27.1          |                  | ug/L |   | 108  | 71 - 124        |
| Chlorobenzene       | 25.0           | 26.2          |                  | ug/L |   | 105  | 72 - 120        |
| Ethylbenzene        | 25.0           | 27.2          |                  | ug/L |   | 109  | 77 - 123        |
| Xylenes, Total      | 75.0           | 83.9          |                  | ug/L |   | 112  | 76 - 122        |

| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 115              |                  | 66 - 137 |
| Toluene-d8 (Surr)            | 109              |                  | 71 - 126 |
| 4-Bromofluorobenzene (Surr)  | 107              |                  | 73 - 120 |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80570

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| 1,2-Dichlorobenzene | 5.0              | U                   | 125            | 133          |                 | ug/L |   | 106  | 77 - 120        |
| Benzene             | 5.0              | U                   | 125            | 138          |                 | ug/L |   | 110  | 71 - 124        |
| Chlorobenzene       | 11               |                     | 125            | 167          | F               | ug/L |   | 125  | 72 - 120        |
| Ethylbenzene        | 5.0              | U                   | 125            | 136          |                 | ug/L |   | 109  | 77 - 123        |
| Xylenes, Total      | 10               | U                   | 375            | 415          |                 | ug/L |   | 111  | 76 - 122        |

| Surrogate                    | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|------------------------------|-----------------|-----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 112             |                 | 66 - 137 |
| Toluene-d8 (Surr)            | 104             |                 | 71 - 126 |
| 4-Bromofluorobenzene (Surr)  | 106             |                 | 73 - 120 |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80570

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,2-Dichlorobenzene | 5.0           | U                | 125         | 134        |               | ug/L |   | 107  | 77 - 120     | 1   | 20        |
| Benzene             | 5.0           | U                | 125         | 133        |               | ug/L |   | 106  | 71 - 124     | 4   | 13        |
| Chlorobenzene       | 11            |                  | 125         | 162        | F             | ug/L |   | 121  | 72 - 120     | 3   | 25        |
| Ethylbenzene        | 5.0           | U                | 125         | 132        |               | ug/L |   | 106  | 77 - 123     | 3   | 15        |
| Xylenes, Total      | 10            | U                | 375         | 411        |               | ug/L |   | 110  | 76 - 122     | 1   | 16        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 113           |               | 66 - 137 |
| Toluene-d8 (Surr)            | 106           |               | 71 - 126 |
| 4-Bromofluorobenzene (Surr)  | 109           |               | 73 - 120 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-80441/1-A

Matrix: Water

Analysis Batch: 80575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80441

| Analyte         | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline | 5.0       | U            | 5.0 | 0.59 | ug/L |   | 09/13/12 14:57 | 09/14/12 11:23 | 1       |
| Naphthalene     | 5.0       | U            | 5.0 | 0.76 | ug/L |   | 09/13/12 14:57 | 09/14/12 11:23 | 1       |

| Surrogate        | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5  | 71           |              | 46 - 120 | 09/13/12 14:57 | 09/14/12 11:23 | 1       |
| 2-Fluorobiphenyl | 82           |              | 48 - 120 | 09/13/12 14:57 | 09/14/12 11:23 | 1       |
| p-Terphenyl-d14  | 121          |              | 67 - 150 | 09/13/12 14:57 | 09/14/12 11:23 | 1       |

Lab Sample ID: LCS 480-80441/2-A

Matrix: Water

Analysis Batch: 80575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80441

| Surrogate        | LCS %Recovery | LCS Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| Nitrobenzene-d5  | 90            |               | 46 - 120 |
| 2-Fluorobiphenyl | 96            |               | 48 - 120 |
| p-Terphenyl-d14  | 119           |               | 67 - 150 |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80575

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80441

| Surrogate        | MS %Recovery | MS Qualifier | Limits   |
|------------------|--------------|--------------|----------|
| Nitrobenzene-d5  | 90           |              | 46 - 120 |
| 2-Fluorobiphenyl | 93           |              | 48 - 120 |
| p-Terphenyl-d14  | 69           |              | 67 - 150 |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80575

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80441

|                  | MSD       | MSD       |          |
|------------------|-----------|-----------|----------|
| Surrogate        | %Recovery | Qualifier | Limits   |
| Nitrobenzene-d5  | 93        |           | 46 - 120 |
| 2-Fluorobiphenyl | 99        |           | 48 - 120 |
| p-Terphenyl-d14  | 85        |           | 67 - 150 |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-80448/1-A

Matrix: Water

Analysis Batch: 80433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80448

|          | MB     | MB        |       |       |      |   |                |                |     |     |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|-----|-----|
| Analyte  | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil | Fac |
| PCB-1016 | 0.060  | U         | 0.060 | 0.038 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1221 | 0.060  | U         | 0.060 | 0.038 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1232 | 0.060  | U         | 0.060 | 0.038 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1242 | 0.060  | U         | 0.060 | 0.038 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1248 | 0.060  | U         | 0.060 | 0.038 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1254 | 0.060  | U         | 0.060 | 0.031 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |
| PCB-1260 | 0.060  | U         | 0.060 | 0.031 | ug/L |   | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |

|                        | MB        | MB        |          |                |                |     |     |  |  |  |
|------------------------|-----------|-----------|----------|----------------|----------------|-----|-----|--|--|--|
| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil | Fac |  |  |  |
| DCB Decachlorobiphenyl | 62        |           | 10 - 158 | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |  |  |  |
| Tetrachloro-m-xylene   | 89        |           | 18 - 146 | 09/13/12 15:18 | 09/14/12 14:18 | 1   |     |  |  |  |

Lab Sample ID: LCS 480-80448/2-A

Matrix: Water

Analysis Batch: 80433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80448

|          | Spike | LCS    | LCS       |      |   |      |          |  |  |  |
|----------|-------|--------|-----------|------|---|------|----------|--|--|--|
| Analyte  | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |  |
| PCB-1016 | 1.00  | 0.923  |           | ug/L |   | 92   | 44 - 154 |  |  |  |
| PCB-1260 | 1.00  | 0.958  |           | ug/L |   | 96   | 34 - 150 |  |  |  |

|                        | LCS       | LCS       |          |
|------------------------|-----------|-----------|----------|
| Surrogate              | %Recovery | Qualifier | Limits   |
| DCB Decachlorobiphenyl | 53        |           | 10 - 158 |
| Tetrachloro-m-xylene   | 88        |           | 18 - 146 |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80433

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80448

|          | Sample | Sample    | Spike | MS     | MS        |      |   |      |          |  |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| PCB-1016 | 0.057  | U         | 0.946 | 0.995  |           | ug/L |   | 105  | 50 - 159 |  |
| PCB-1260 | 0.057  | U         | 0.946 | 0.793  |           | ug/L |   | 84   | 26 - 142 |  |

|                        | MS        | MS        |          |
|------------------------|-----------|-----------|----------|
| Surrogate              | %Recovery | Qualifier | Limits   |
| DCB Decachlorobiphenyl | 33        |           | 10 - 158 |
| Tetrachloro-m-xylene   | 97        |           | 18 - 146 |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80433

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80448

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| PCB-1016               | 0.057         | U                | 0.945       | 0.864      |               | ug/L |   | 91   | 50 - 159     | 14  | 30    |
| PCB-1260               | 0.057         | U                | 0.945       | 0.630      |               | ug/L |   | 67   | 26 - 142     | 23  | 30    |
| Surrogate              | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |       |
| DCB Decachlorobiphenyl | 28            |                  | 10 - 158    |            |               |      |   |      |              |     |       |
| Tetrachloro-m-xylene   | 88            |                  | 18 - 146    |            |               |      |   |      |              |     |       |

## Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-80446/1-A

Matrix: Water

Analysis Batch: 80578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80446

| Analyte                | MB Result    | MB Qualifier | RL       | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD               | 0.050        | U            | 0.050    | 0.0092 | ug/L |   | 09/13/12 15:10 | 09/14/12 22:29 | 1       |
| 4,4'-DDE               | 0.050        | U            | 0.050    | 0.012  | ug/L |   | 09/13/12 15:10 | 09/14/12 22:29 | 1       |
| Surrogate              | MB %Recovery | MB Qualifier | Limits   |        |      |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 63           |              | 16 - 120 |        |      |   | 09/13/12 15:10 | 09/14/12 22:29 | 1       |
| Tetrachloro-m-xylene   | 77           |              | 35 - 120 |        |      |   | 09/13/12 15:10 | 09/14/12 22:29 | 1       |

Lab Sample ID: LCS 480-80446/2-A

Matrix: Water

Analysis Batch: 80578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80446

| Analyte                | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |  |  |
|------------------------|---------------|---------------|---------------|------|---|------|--------------|--|--|
| 4,4'-DDD               | 0.500         | 0.454         |               | ug/L |   | 91   | 59 - 135     |  |  |
| 4,4'-DDE               | 0.500         | 0.409         |               | ug/L |   | 82   | 52 - 123     |  |  |
| Surrogate              | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |  |  |
| DCB Decachlorobiphenyl | 48            |               | 16 - 120      |      |   |      |              |  |  |
| Tetrachloro-m-xylene   | 72            |               | 35 - 120      |      |   |      |              |  |  |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80578

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80446

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |  |  |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|--|--|
| 4,4'-DDD               | 0.047         | U                | 0.476       | 0.380     |              | ug/L |   | 80   | 26 - 146     |  |  |
| 4,4'-DDE               | 0.047         | U                | 0.476       | 0.339     |              | ug/L |   | 71   | 15 - 136     |  |  |
| Surrogate              | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |              |  |  |
| DCB Decachlorobiphenyl | 41            |                  | 16 - 120    |           |              |      |   |      |              |  |  |
| Tetrachloro-m-xylene   | 62            |                  | 35 - 120    |           |              |      |   |      |              |  |  |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80578

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80446

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 4,4'-DDD               | 0.047         | U                | 0.475       | 0.369      |               | ug/L |   | 78   | 26 - 146     | 3   | 12        |
| 4,4'-DDE               | 0.047         | U                | 0.475       | 0.315      |               | ug/L |   | 66   | 15 - 136     | 7   | 14        |
| Surrogate              | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |           |
| DCB Decachlorobiphenyl | 44            |                  | 16 - 120    |            |               |      |   |      |              |     |           |
| Tetrachloro-m-xylene   | 62            |                  | 35 - 120    |            |               |      |   |      |              |     |           |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-80305/1-A

Matrix: Water

Analysis Batch: 80548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80305

| Analyte   | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | 0.0040    | U            | 0.0040 | 0.0010  | mg/L |   | 09/13/12 08:45 | 09/13/12 15:53 | 1       |
| Lead      | 0.0050    | U            | 0.0050 | 0.0030  | mg/L |   | 09/13/12 08:45 | 09/13/12 15:53 | 1       |
| Iron      | 0.050     | U            | 0.050  | 0.019   | mg/L |   | 09/13/12 08:45 | 09/13/12 15:53 | 1       |
| Manganese | 0.0030    | U            | 0.0030 | 0.00040 | mg/L |   | 09/13/12 08:45 | 09/13/12 15:53 | 1       |

Lab Sample ID: LCS 480-80305/2-A

Matrix: Water

Analysis Batch: 80548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80305

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Chromium  | 0.200       | 0.196      |               | mg/L |   | 98   | 80 - 120     |
| Lead      | 0.200       | 0.200      |               | mg/L |   | 100  | 80 - 120     |
| Iron      | 10.0        | 9.95       |               | mg/L |   | 99   | 80 - 120     |
| Manganese | 0.200       | 0.204      |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80548

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80305

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chromium  | 0.0033        | J                | 0.200       | 0.198     |              | mg/L |   | 97   | 75 - 125     |
| Lead      | 0.0050        | U                | 0.200       | 0.213     |              | mg/L |   | 107  | 75 - 125     |
| Iron      | 2.6           |                  | 10.0        | 12.50     |              | mg/L |   | 99   | 75 - 125     |
| Manganese | 5.7           |                  | 0.200       | 6.06      | 4            | mg/L |   | 159  | 75 - 125     |

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80548

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80305

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chromium  | 0.0033        | J                | 0.200       | 0.195      |               | mg/L |   | 96   | 75 - 125     | 1   | 20        |
| Lead      | 0.0050        | U                | 0.200       | 0.209      |               | mg/L |   | 104  | 75 - 125     | 2   | 20        |
| Iron      | 2.6           |                  | 10.0        | 12.47      |               | mg/L |   | 98   | 75 - 125     | 0   | 20        |
| Manganese | 5.7           |                  | 0.200       | 6.01       | 4             | mg/L |   | 136  | 75 - 125     | 1   | 20        |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 480-80451/1-A

Matrix: Water

Analysis Batch: 80944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80451

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 1.0          | U               | 1.0  | 0.15  | ug/L |   | 09/14/12 07:20 | 09/15/12 03:47 | 1       |
| Arsenic  | 0.0850       | J               | 1.0  | 0.078 | ug/L |   | 09/14/12 07:20 | 09/15/12 03:47 | 1       |
| Cadmium  | 0.150        | J               | 0.50 | 0.018 | ug/L |   | 09/14/12 07:20 | 09/15/12 03:47 | 1       |

Lab Sample ID: LCS 480-80451/2-A

Matrix: Water

Analysis Batch: 80944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80451

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Antimony | 20.0           | 19.98         |                  | ug/L |   | 100  | 80 - 120        |
| Arsenic  | 20.0           | 19.30         |                  | ug/L |   | 97   | 80 - 120        |
| Cadmium  | 20.0           | 19.65         |                  | ug/L |   | 98   | 80 - 120        |

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80944

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80451

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Antimony | 0.73             | J                   | 20.0           | 22.66        |                 | ug/L |   | 110  | 75 - 125        |
| Arsenic  | 11.9             | B                   | 20.0           | 33.12        |                 | ug/L |   | 106  | 75 - 125        |
| Cadmium  | 0.23             | J B                 | 20.0           | 19.43        |                 | ug/L |   | 96   | 75 - 125        |

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80944

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80451

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Antimony | 0.73             | J                   | 20.0           | 22.08         |                  | ug/L |   | 107  | 75 - 125        | 3   | 20           |
| Arsenic  | 11.9             | B                   | 20.0           | 32.40         |                  | ug/L |   | 102  | 75 - 125        | 2   | 20           |
| Cadmium  | 0.23             | J B                 | 20.0           | 19.14         |                  | ug/L |   | 95   | 75 - 125        | 1   | 20           |

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-80297/1-A

Matrix: Water

Analysis Batch: 80427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80297

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | 0.00020      | U               | 0.00020 | 0.00012 | mg/L |   | 09/13/12 08:20 | 09/13/12 12:25 | 1       |

Lab Sample ID: LCS 480-80297/2-A

Matrix: Water

Analysis Batch: 80427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80297

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Mercury | 0.00667        | 0.00625       |                  | mg/L |   | 94   | 80 - 120        |

## QC Sample Results

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-25019-5 MS

Matrix: Water

Analysis Batch: 80427

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80297

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Mercury | 0.00020       | U                | 0.00667     | 0.00542   |              | mg/L |   | 81   | 75 - 125     |

Lab Sample ID: 480-25019-5 MSD

Matrix: Water

Analysis Batch: 80427

Client Sample ID: Sump 4-091212

Prep Type: Total/NA

Prep Batch: 80297

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Mercury | 0.00020       | U                | 0.00667     | 0.00550    |               | mg/L |   | 82   | 75 - 125     | 2   | 20        |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### GC/MS VOA

#### Analysis Batch: 80570

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 480-25019-2     | Sump 1-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-3     | Sump 2-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-4     | Sump 3-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-5     | Sump 4-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-5 MS  | Sump 4-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-5 MSD | Sump 4-091212      | Total/NA  | Water  | 8260B  |            |
| 480-25019-6     | FDUP-Sump 4-091212 | Total/NA  | Water  | 8260B  |            |
| 480-25019-7     | TRIP BLANK         | Total/NA  | Water  | 8260B  |            |
| LCS 480-80570/3 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 480-80570/4  | Method Blank       | Total/NA  | Water  | 8260B  |            |

### GC/MS Semi VOA

#### Prep Batch: 80441

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 3510C  |            |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 3510C  |            |
| LCS 480-80441/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-80441/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

#### Analysis Batch: 80575

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 8270C  | 80441      |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 8270C  | 80441      |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 8270C  | 80441      |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 8270C  | 80441      |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 8270C  | 80441      |
| LCS 480-80441/2-A | Lab Control Sample | Total/NA  | Water  | 8270C  | 80441      |
| MB 480-80441/1-A  | Method Blank       | Total/NA  | Water  | 8270C  | 80441      |

### GC Semi VOA

#### Analysis Batch: 80433

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 608    | 80448      |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 608    | 80448      |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 608    | 80448      |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 608    | 80448      |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 608    | 80448      |
| LCS 480-80448/2-A | Lab Control Sample | Total/NA  | Water  | 608    | 80448      |
| MB 480-80448/1-A  | Method Blank       | Total/NA  | Water  | 608    | 80448      |

#### Prep Batch: 80446

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1     | Sump Comp-091212   | Total/NA  | Water  | 3510C  |            |
| 480-25019-5     | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MS  | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MSD | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-6     | FDUP-Sump 4-091212 | Total/NA  | Water  | 3510C  |            |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### GC Semi VOA (Continued)

#### Prep Batch: 80446 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| LCS 480-80446/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-80446/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

#### Prep Batch: 80448

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 3510C  |            |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 3510C  |            |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 3510C  |            |
| LCS 480-80448/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-80448/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

#### Analysis Batch: 80578

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 8081A  | 80446      |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 8081A  | 80446      |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 8081A  | 80446      |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 8081A  | 80446      |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 8081A  | 80446      |
| LCS 480-80446/2-A | Lab Control Sample | Total/NA  | Water  | 8081A  | 80446      |
| MB 480-80446/1-A  | Method Blank       | Total/NA  | Water  | 8081A  | 80446      |

### Metals

#### Prep Batch: 80297

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 7470A  |            |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 7470A  |            |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 7470A  |            |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 7470A  |            |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 7470A  |            |
| LCS 480-80297/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |
| MB 480-80297/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |

#### Prep Batch: 80305

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 3005A  |            |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 3005A  |            |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 3005A  |            |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 3005A  |            |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 3005A  |            |
| LCS 480-80305/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |
| MB 480-80305/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |

#### Analysis Batch: 80427

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1     | Sump Comp-091212   | Total/NA  | Water  | 7470A  | 80297      |
| 480-25019-5     | Sump 4-091212      | Total/NA  | Water  | 7470A  | 80297      |
| 480-25019-5 MS  | Sump 4-091212      | Total/NA  | Water  | 7470A  | 80297      |
| 480-25019-5 MSD | Sump 4-091212      | Total/NA  | Water  | 7470A  | 80297      |
| 480-25019-6     | FDUP-Sump 4-091212 | Total/NA  | Water  | 7470A  | 80297      |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Metals (Continued)

#### Analysis Batch: 80427 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| LCS 480-80297/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 80297      |
| MB 480-80297/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 80297      |

#### Prep Batch: 80451

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 3020A  |            |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 3020A  |            |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 3020A  |            |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 3020A  |            |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 3020A  |            |
| LCS 480-80451/2-A | Lab Control Sample | Total/NA  | Water  | 3020A  |            |
| MB 480-80451/1-A  | Method Blank       | Total/NA  | Water  | 3020A  |            |

#### Analysis Batch: 80548

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 6010B  | 80305      |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 6010B  | 80305      |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 6010B  | 80305      |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 6010B  | 80305      |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 6010B  | 80305      |
| LCS 480-80305/2-A | Lab Control Sample | Total/NA  | Water  | 6010B  | 80305      |
| MB 480-80305/1-A  | Method Blank       | Total/NA  | Water  | 6010B  | 80305      |

#### Analysis Batch: 80944

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25019-1       | Sump Comp-091212   | Total/NA  | Water  | 6020   | 80451      |
| 480-25019-5       | Sump 4-091212      | Total/NA  | Water  | 6020   | 80451      |
| 480-25019-5 MS    | Sump 4-091212      | Total/NA  | Water  | 6020   | 80451      |
| 480-25019-5 MSD   | Sump 4-091212      | Total/NA  | Water  | 6020   | 80451      |
| 480-25019-6       | FDUP-Sump 4-091212 | Total/NA  | Water  | 6020   | 80451      |
| LCS 480-80451/2-A | Lab Control Sample | Total/NA  | Water  | 6020   | 80451      |
| MB 480-80451/1-A  | Method Blank       | Total/NA  | Water  | 6020   | 80451      |

# Lab Chronicle

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

## Client Sample ID: Sump Comp-091212

Date Collected: 09/12/12 12:07

Date Received: 09/12/12 15:05

## Lab Sample ID: 480-25019-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 80441        | 09/13/12 14:58       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8270C        |     | 1               | 80575        | 09/14/12 19:28       | HTL     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80448        | 09/13/12 15:20       | DE      | TAL BUF |
| Total/NA  | Analysis   | 608          |     | 1               | 80433        | 09/15/12 08:59       | DB      | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80446        | 09/13/12 15:12       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8081A        |     | 1               | 80578        | 09/15/12 10:52       | LW      | TAL BUF |
| Total/NA  | Prep       | 7470A        |     |                 | 80297        | 09/13/12 08:20       | JRK     | TAL BUF |
| Total/NA  | Analysis   | 7470A        |     | 1               | 80427        | 09/13/12 12:50       | JRK     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 80305        | 09/13/12 08:45       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6010B        |     | 1               | 80548        | 09/13/12 16:34       | LH      | TAL BUF |
| Total/NA  | Prep       | 3020A        |     |                 | 80451        | 09/14/12 07:20       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6020         |     | 1               | 80944        | 09/15/12 03:58       | MM      | TAL BUF |

## Client Sample ID: Sump 1-091212

Date Collected: 09/12/12 12:01

Date Received: 09/12/12 15:05

## Lab Sample ID: 480-25019-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 80570        | 09/14/12 15:01       | ND      | TAL BUF |

## Client Sample ID: Sump 2-091212

Date Collected: 09/12/12 11:39

Date Received: 09/12/12 15:05

## Lab Sample ID: 480-25019-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 80570        | 09/14/12 15:24       | ND      | TAL BUF |

## Client Sample ID: Sump 3-091212

Date Collected: 09/12/12 11:19

Date Received: 09/12/12 15:05

## Lab Sample ID: 480-25019-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 80570        | 09/14/12 15:48       | ND      | TAL BUF |

## Client Sample ID: Sump 4-091212

Date Collected: 09/12/12 09:59

Date Received: 09/12/12 15:05

## Lab Sample ID: 480-25019-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 80570        | 09/14/12 16:11       | ND      | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80441        | 09/13/12 14:58       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8270C        |     | 1               | 80575        | 09/14/12 19:52       | HTL     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80448        | 09/13/12 15:20       | DE      | TAL BUF |
| Total/NA  | Analysis   | 608          |     | 1               | 80433        | 09/15/12 09:15       | DB      | TAL BUF |

## Lab Chronicle

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

**Client Sample ID: Sump 4-091212**

**Lab Sample ID: 480-25019-5**

**Date Collected: 09/12/12 09:59**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 80446        | 09/13/12 15:12       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8081A        |     | 1               | 80578        | 09/15/12 11:33       | LW      | TAL BUF |
| Total/NA  | Prep       | 7470A        |     |                 | 80297        | 09/13/12 08:20       | JRK     | TAL BUF |
| Total/NA  | Analysis   | 7470A        |     | 1               | 80427        | 09/13/12 12:51       | JRK     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 80305        | 09/13/12 08:45       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6010B        |     | 1               | 80548        | 09/13/12 16:36       | LH      | TAL BUF |
| Total/NA  | Prep       | 3020A        |     |                 | 80451        | 09/14/12 07:20       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6020         |     | 1               | 80944        | 09/15/12 04:04       | MM      | TAL BUF |

**Client Sample ID: FDUP-Sump 4-091212**

**Lab Sample ID: 480-25019-6**

**Date Collected: 09/12/12 10:37**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 80570        | 09/14/12 17:22       | ND      | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80441        | 09/13/12 14:58       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8270C        |     | 1               | 80575        | 09/14/12 20:16       | HTL     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80448        | 09/13/12 15:20       | DE      | TAL BUF |
| Total/NA  | Analysis   | 608          |     | 1               | 80433        | 09/15/12 09:31       | DB      | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80446        | 09/13/12 15:12       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8081A        |     | 1               | 80578        | 09/15/12 12:14       | LW      | TAL BUF |
| Total/NA  | Prep       | 7470A        |     |                 | 80297        | 09/13/12 08:20       | JRK     | TAL BUF |
| Total/NA  | Analysis   | 7470A        |     | 1               | 80427        | 09/13/12 12:59       | JRK     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 80305        | 09/13/12 08:45       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6010B        |     | 1               | 80548        | 09/13/12 16:44       | LH      | TAL BUF |
| Total/NA  | Prep       | 3020A        |     |                 | 80451        | 09/14/12 07:20       | JM      | TAL BUF |
| Total/NA  | Analysis   | 6020         |     | 1               | 80944        | 09/15/12 04:45       | MM      | TAL BUF |

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-25019-7**

**Date Collected: 09/12/12 10:45**

**Matrix: Water**

**Date Received: 09/12/12 15:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 80570        | 09/14/12 17:46       | ND      | TAL BUF |

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

### Laboratory: TestAmerica Buffalo

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

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ      | State Program | 6          | 88-0686          | 07-06-13        |
| California        | NELAC         | 9          | 1169CA           | 09-30-12        |
| Connecticut       | State Program | 1          | PH-0568          | 09-30-12        |
| Florida           | NELAC         | 4          | E87672           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 03-31-13        |
| Georgia           | State Program | 4          | 956              | 03-31-12        |
| Illinois          | NELAC         | 5          | 200003           | 09-30-12        |
| Iowa              | State Program | 7          | 374              | 03-01-13        |
| Kansas            | NELAC         | 7          | E-10187          | 01-31-13        |
| Kentucky          | State Program | 4          | 90029            | 12-31-12        |
| Kentucky (UST)    | State Program | 4          | 30               | 04-01-13        |
| Louisiana         | NELAC         | 6          | 02031            | 06-30-13        |
| Maine             | State Program | 1          | NY00044          | 12-04-12        |
| Maryland          | State Program | 3          | 294              | 03-31-13        |
| Massachusetts     | State Program | 1          | M-NY044          | 06-30-13        |
| Michigan          | State Program | 5          | 9937             | 04-01-13        |
| Minnesota         | NELAC         | 5          | 036-999-337      | 12-31-12        |
| New Hampshire     | NELAC         | 1          | 2973             | 09-11-13        |
| New Hampshire     | NELAC         | 1          | 2337             | 11-17-12        |
| New Jersey        | NELAC         | 2          | NY455            | 06-30-13        |
| New York          | NELAC         | 2          | 10026            | 03-31-13        |
| North Dakota      | State Program | 8          | R-176            | 03-31-13        |
| Oklahoma          | State Program | 6          | 9421             | 08-31-13        |
| Oregon            | NELAC         | 10         | NY200003         | 06-09-13        |
| Pennsylvania      | NELAC         | 3          | 68-00281         | 07-31-13        |
| Tennessee         | State Program | 4          | TN02970          | 04-01-13        |
| Texas             | NELAC         | 6          | T104704412-11-2  | 07-31-13        |
| USDA              | Federal       |            | P330-11-00386    | 11-22-14        |
| Washington        | State Program | 10         | C784             | 02-10-13        |
| West Virginia DEP | State Program | 3          | 252              | 09-30-12        |
| Wisconsin         | State Program | 5          | 998310390        | 08-31-12        |

## Method Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

| Method | Method Description                     | Protocol  | Laboratory |
|--------|----------------------------------------|-----------|------------|
| 8260B  | Volatile Organic Compounds (GC/MS)     | SW846     | TAL BUF    |
| 8270C  | Semivolatile Organic Compounds (GC/MS) | SW846     | TAL BUF    |
| 608    | Polychlorinated Biphenyls (PCBs) (GC)  | 40CFR136A | TAL BUF    |
| 8081A  | Organochlorine Pesticides (GC)         | SW846     | TAL BUF    |
| 6010B  | Metals (ICP)                           | SW846     | TAL BUF    |
| 6020   | Metals (ICP/MS)                        | SW846     | TAL BUF    |
| 7470A  | Mercury (CVAA)                         | SW846     | TAL BUF    |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Honeywell International Inc  
Project/Site: Honeywell - Alltiff GW Monitoring

TestAmerica Job ID: 480-25019-1

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       |
|---------------|--------------------|--------|----------------|----------------|
| 480-25019-1   | Sump Comp-091212   | Water  | 09/12/12 12:07 | 09/12/12 15:05 |
| 480-25019-2   | Sump 1-091212      | Water  | 09/12/12 12:01 | 09/12/12 15:05 |
| 480-25019-3   | Sump 2-091212      | Water  | 09/12/12 11:39 | 09/12/12 15:05 |
| 480-25019-4   | Sump 3-091212      | Water  | 09/12/12 11:19 | 09/12/12 15:05 |
| 480-25019-5   | Sump 4-091212      | Water  | 09/12/12 09:59 | 09/12/12 15:05 |
| 480-25019-6   | FDUP-Sump 4-091212 | Water  | 09/12/12 10:37 | 09/12/12 15:05 |
| 480-25019-7   | TRIP BLANK         | Water  | 09/12/12 10:45 | 09/12/12 15:05 |

## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                        |  |                                 |             |                                               |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|-------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|-------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client Information</b>                                                                                                                                                                                              |  | Sample # <u>Patrick Higgins</u> |             | Lab PM <u>Bogolin, Anthony</u>                |                                                     | Carrier Tracking No(s)                                                                                                               |                            | COC No <u>480-15491-3542.1</u> |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Client Contact <u>John Formoza</u>                                                                                                                                                                                     |  | Phone <u>(315) 468-1663</u>     |             | E-Mail <u>tony.bogolin@testamericainc.com</u> |                                                     |                                                                                                                                      |                            | Page <u>Page 1 of 1</u>        |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Company <u>Honeywell International Inc</u>                                                                                                                                                                             |  |                                 |             | Analysis Requested                            |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Address <u>Remediation &amp; Evaluation Services, Mey-3</u>                                                                                                                                                            |  |                                 |             | Due Date Requested:                           |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| City <u>Morristown</u>                                                                                                                                                                                                 |  |                                 |             | TAT Requested (days):                         |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| State, Zip <u>NJ, 07962</u>                                                                                                                                                                                            |  |                                 |             | PO #                                          |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Phone                                                                                                                                                                                                                  |  |                                 |             | Purchase Order Requested                      |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Email <u>John.Formoza@CH2M.com</u>                                                                                                                                                                                     |  |                                 |             | WO #                                          |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Project Name <u>Honeywell - Buffalo Sites/ Event Desc: Honeywell Alltiff GW Mon</u>                                                                                                                                    |  |                                 |             | Project # <u>48003159</u>                     |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Site <u>New York</u>                                                                                                                                                                                                   |  |                                 |             | SSOW#                                         |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Sample Identification                                                                                                                                                                                                  |  | Sample Date                     | Sample Time | Sample Type (C=comp, G=grab)                  | Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No)                                                                                                    | Perform MS/MSD (Yes or No) | 6010B, 6020, 7470A             | 608 PCB - Priority Pollutant PCBs | 8081A - (MOD) Pesticides | 8270C - (MOD) Semi-volatiles | 8280B - (MOD) Volatiles | Total Number of containers | Preservation Codes:                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                        |  |                                 |             |                                               |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - ph 4-5<br>Z - other (specify) |
|                                                                                                                                                                                                                        |  |                                 |             | Preservation Code:                            |                                                     |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            | Other:                                                                                                                                                                                                                                                                                                                                                             |
| Sump Comp-091212                                                                                                                                                                                                       |  | 9/12/11                         | 12:07       | C                                             | Water                                               | N                                                                                                                                    | N                          | 1                              | 2                                 | 2                        | 2                            |                         | 7                          |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 1-091212                                                                                                                                                                                                          |  | 9/12/11                         | 12:01       | G                                             | Water                                               | N                                                                                                                                    | N                          |                                |                                   |                          |                              | 3                       | 3                          |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 2-091212                                                                                                                                                                                                          |  | 9/12/11                         | 11:39       | G                                             | Water                                               | N                                                                                                                                    | N                          |                                |                                   |                          |                              | 3                       | 3                          |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 3-091212                                                                                                                                                                                                          |  | 9/12/11                         | 11:19       | G                                             | Water                                               | N                                                                                                                                    | N                          |                                |                                   |                          |                              | 3                       | 3                          |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 4-091212                                                                                                                                                                                                          |  | 9/12/11                         | 09:59       | G                                             | Water                                               | N                                                                                                                                    |                            | 1                              | 2                                 | 2                        | 2                            | 3                       | 10                         |                                                                                                                                                                                                                                                                                                                                                                    |
| FDUP-Sump 4-091212                                                                                                                                                                                                     |  | 9/12/11                         | 10:37       | G                                             | Water                                               | N                                                                                                                                    | N                          | 1                              | 2                                 | 2                        | 2                            | 3                       | 10                         |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 4-091212_MS                                                                                                                                                                                                       |  | 9/12/11                         | 10:11       | G                                             | Water                                               | N                                                                                                                                    | Y                          | 1                              | 2                                 | 2                        | 2                            | 3                       | 10                         |                                                                                                                                                                                                                                                                                                                                                                    |
| Sump 4-091212_SD                                                                                                                                                                                                       |  | 9/12/11                         | 10:23       | G                                             | Water                                               | N                                                                                                                                    | Y                          | 1                              | 2                                 | 2                        | 2                            | 3                       | 10                         |                                                                                                                                                                                                                                                                                                                                                                    |
| TRIP BLANK                                                                                                                                                                                                             |  | 9/12/11                         | 10:45       | G                                             | Water                                               | N                                                                                                                                    | N                          |                                |                                   |                          |                              | 1                       | 1                          |                                                                                                                                                                                                                                                                                                                                                                    |
| <del>MMW-2-091212</del>                                                                                                                                                                                                |  | <del>9/12/11</del>              |             | <del>G</del>                                  | <del>Water</del>                                    | <del>N</del>                                                                                                                         | <del>N</del>               |                                |                                   |                          |                              |                         | 0                          |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                        |  |                                 |             |                                               | Water                                               |                                                                                                                                      |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                  |  |                                 |             |                                               |                                                     | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                           |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |                                 |             |                                               |                                                     | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                 |  |                                 |             |                                               |                                                     | Special Instructions/QC Requirements:                                                                                                |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Empty Kit Relinquished by:                                                                                                                                                                                             |  |                                 |             | Date:                                         |                                                     | Time:                                                                                                                                |                            | Method of Shipment             |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Relinquished by <u>Patrick Higgins</u>                                                                                                                                                                                 |  |                                 |             | Date/Time <u>09/12/2012 1505</u>              |                                                     | Company                                                                                                                              |                            | Received by <u>[Signature]</u> |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Relinquished by                                                                                                                                                                                                        |  |                                 |             | Date/Time                                     |                                                     | Company                                                                                                                              |                            | Received by                    |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Relinquished by                                                                                                                                                                                                        |  |                                 |             | Date/Time                                     |                                                     | Company                                                                                                                              |                            | Received by                    |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                         |  |                                 |             | Custody Seal No.:                             |                                                     | Cooler Temperature(s) °C and Other Remarks: <u>2.9, 2.6, 3.0, 3.2 #1</u>                                                             |                            |                                |                                   |                          |                              |                         |                            |                                                                                                                                                                                                                                                                                                                                                                    |

## Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-25019-1

**Login Number: 25019**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: May, Joel M**

| Question                                                                         | Answer | Comment   |
|----------------------------------------------------------------------------------|--------|-----------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |           |
| The cooler's custody seal, if present, is intact.                                | True   |           |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |           |
| Samples were received on ice.                                                    | True   |           |
| Cooler Temperature is acceptable.                                                | True   |           |
| Cooler Temperature is recorded.                                                  | True   |           |
| COC is present.                                                                  | True   |           |
| COC is filled out in ink and legible.                                            | True   |           |
| COC is filled out with all pertinent information.                                | True   |           |
| Is the Field Sampler's name present on COC?                                      | True   |           |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |           |
| Samples are received within Holding Time.                                        | True   |           |
| Sample containers have legible labels.                                           | True   |           |
| Containers are not broken or leaking.                                            | True   |           |
| Sample collection date/times are provided.                                       | True   |           |
| Appropriate sample containers are used.                                          | True   |           |
| Sample bottles are completely filled.                                            | True   |           |
| Sample Preservation Verified                                                     | True   |           |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |           |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |           |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |           |
| Multiphasic samples are not present.                                             | True   |           |
| Samples do not require splitting or compositing.                                 | True   |           |
| Sampling Company provided.                                                       | True   | HONEYWELL |
| Samples received within 48 hours of sampling.                                    | True   |           |
| Samples requiring field filtration have been filtered in the field.              | N/A    |           |
| Chlorine Residual checked.                                                       | N/A    |           |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-25086-1

Client Project/Site: 30130- Alltft GW Monitoring

Sampling Event: Honeywell - Alltft GW Monitoring (10)

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. John Mojka



Authorized for release by:

9/25/2012 1:27:38 PM

Robert Wienke

Project Administrator

[robert.wienke@testamericainc.com](mailto:robert.wienke@testamericainc.com)

Designee for

John Schove

Project Manager I

[john.schove@testamericainc.com](mailto:john.schove@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 2  |
| Definitions/Glossary . . . . .   | 3  |
| Case Narrative . . . . .         | 4  |
| Detection Summary . . . . .      | 5  |
| Client Sample Results . . . . .  | 6  |
| Surrogate Summary . . . . .      | 8  |
| QC Sample Results . . . . .      | 9  |
| QC Association Summary . . . . . | 13 |
| Lab Chronicle . . . . .          | 15 |
| Certification Summary . . . . .  | 16 |
| Method Summary . . . . .         | 17 |
| Sample Summary . . . . .         | 18 |
| Chain of Custody . . . . .       | 19 |
| Receipt Checklists . . . . .     | 20 |



## Definitions/Glossary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

### Qualifiers

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B         | Compound was found in the blank and sample.                                                                    |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Case Narrative

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

**Job ID: 480-25086-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-25086-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/13/2012 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.6° C.

#### GC/MS VOA

No analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 608: For the method 608, the initial calibration criteria is based upon the total Aroclor value. The %RSD in some of the individual biphenyl peaks may exceed 10%, though the total Aroclor amount is still within method quality control criteria.

Method(s) 608: All primary data is reported from the ZB-5 column.

Method(s) 608: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8081A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

#### Metals

Method(s) 6020: The Method Blank for batch 480-80229 contained total cadmium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples MW-2-091312 (480-25086-1) was not performed.

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

Client Sample ID: MW-2-091312

Lab Sample ID: 480-25086-1

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Chromium  | 0.0029 | J         | 0.0040 | 0.0010  | mg/L | 1       |   | 6010B  | Total/NA  |
| Lead      | 0.0037 | J         | 0.0050 | 0.0030  | mg/L | 1       |   | 6010B  | Total/NA  |
| Iron      | 0.73   |           | 0.050  | 0.019   | mg/L | 1       |   | 6010B  | Total/NA  |
| Manganese | 0.24   |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010B  | Total/NA  |
| Antimony  | 0.40   | J         | 1.0    | 0.15    | ug/L | 1       |   | 6020   | Total/NA  |
| Arsenic   | 2.6    |           | 1.0    | 0.078   | ug/L | 1       |   | 6020   | Total/NA  |
| Cadmium   | 0.23   | J B       | 0.50   | 0.018   | ug/L | 1       |   | 6020   | Total/NA  |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

**Client Sample ID: MW-2-091312**

**Lab Sample ID: 480-25086-1**

**Date Collected: 09/13/12 08:25**

**Matrix: Water**

**Date Received: 09/13/12 14:00**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte             | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | ND     |           | 1.0 | 0.79 | ug/L |   |          | 09/14/12 20:15 | 1       |
| 1,4-Dichlorobenzene | ND     |           | 1.0 | 0.84 | ug/L |   |          | 09/14/12 20:15 | 1       |
| Benzene             | ND     |           | 1.0 | 0.41 | ug/L |   |          | 09/14/12 20:15 | 1       |
| Chlorobenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 09/14/12 20:15 | 1       |
| Ethylbenzene        | ND     |           | 1.0 | 0.74 | ug/L |   |          | 09/14/12 20:15 | 1       |
| Xylenes, Total      | ND     |           | 2.0 | 0.66 | ug/L |   |          | 09/14/12 20:15 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 66 - 137 |          | 09/14/12 20:15 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 71 - 126 |          | 09/14/12 20:15 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 73 - 120 |          | 09/14/12 20:15 | 1       |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline | ND     |           | 4.8 | 0.56 | ug/L |   | 09/14/12 13:55 | 09/17/12 18:10 | 1       |
| Naphthalene     | ND     |           | 4.8 | 0.72 | ug/L |   | 09/14/12 13:55 | 09/17/12 18:10 | 1       |

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5  | 90        |           | 46 - 120 | 09/14/12 13:55 | 09/17/12 18:10 | 1       |
| 2-Fluorobiphenyl | 100       |           | 48 - 120 | 09/14/12 13:55 | 09/17/12 18:10 | 1       |
| p-Terphenyl-d14  | 82        |           | 67 - 150 | 09/14/12 13:55 | 09/17/12 18:10 | 1       |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte  | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.057 | 0.036 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1221 | ND     |           | 0.057 | 0.036 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1232 | ND     |           | 0.057 | 0.036 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1242 | ND     |           | 0.057 | 0.036 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1248 | ND     |           | 0.057 | 0.036 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1254 | ND     |           | 0.057 | 0.029 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| PCB-1260 | ND     |           | 0.057 | 0.029 | ug/L |   | 09/14/12 14:04 | 09/18/12 16:56 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 63        |           | 10 - 158 | 09/14/12 14:04 | 09/18/12 16:56 | 1       |
| Tetrachloro-m-xylene   | 80        |           | 18 - 146 | 09/14/12 14:04 | 09/18/12 16:56 | 1       |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte  | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND     |           | 0.047 | 0.0087 | ug/L |   | 09/19/12 05:00 | 09/20/12 18:04 | 1       |
| 4,4'-DDE | ND     |           | 0.047 | 0.011  | ug/L |   | 09/19/12 05:00 | 09/20/12 18:04 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 64        |           | 16 - 120 | 09/19/12 05:00 | 09/20/12 18:04 | 1       |
| Tetrachloro-m-xylene   | 70        |           | 35 - 120 | 09/19/12 05:00 | 09/20/12 18:04 | 1       |

## Method: 6010B - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | 0.0029 | J         | 0.0040 | 0.0010  | mg/L |   | 09/14/12 14:00 | 09/17/12 15:53 | 1       |
| Lead      | 0.0037 | J         | 0.0050 | 0.0030  | mg/L |   | 09/14/12 14:00 | 09/17/12 15:53 | 1       |
| Iron      | 0.73   |           | 0.050  | 0.019   | mg/L |   | 09/14/12 14:00 | 09/17/12 15:53 | 1       |
| Manganese | 0.24   |           | 0.0030 | 0.00040 | mg/L |   | 09/14/12 14:00 | 09/17/12 15:53 | 1       |

## Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

**Client Sample ID: MW-2-091312**

**Lab Sample ID: 480-25086-1**

**Date Collected: 09/13/12 08:25**

**Matrix: Water**

**Date Received: 09/13/12 14:00**

### Method: 6020 - Metals (ICP/MS)

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Antimony | 0.40   | J         | 1.0  | 0.15  | ug/L |   | 09/17/12 08:45 | 09/18/12 23:36 | 1       |
| Arsenic  | 2.6    |           | 1.0  | 0.078 | ug/L |   | 09/17/12 08:45 | 09/18/12 23:36 | 1       |
| Cadmium  | 0.23   | J B       | 0.50 | 0.018 | ug/L |   | 09/17/12 08:45 | 09/18/12 23:36 | 1       |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00020 | 0.00012 | mg/L |   | 09/14/12 09:00 | 09/14/12 12:37 | 1       |

## Surrogate Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID                        | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|--------------------------------------|--------------------|------------------------------------------------|-----------------|-----------------|
|                                      |                    | 12DCE<br>(66-137)                              | TOL<br>(71-126) | BFB<br>(73-120) |
| 480-25086-1                          | MW-2-091312        | 91                                             | 92              | 94              |
| LCS 480-80695/3                      | Lab Control Sample | 91                                             | 91              | 94              |
| MB 480-80695/5                       | Method Blank       | 91                                             | 91              | 92              |
| <b>Surrogate Legend</b>              |                    |                                                |                 |                 |
| 12DCE = 1,2-Dichloroethane-d4 (Surr) |                    |                                                |                 |                 |
| TOL = Toluene-d8 (Surr)              |                    |                                                |                 |                 |
| BFB = 4-Bromofluorobenzene (Surr)    |                    |                                                |                 |                 |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID           | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-------------------------|--------------------|------------------------------------------------|-----------------|-----------------|
|                         |                    | NBZ<br>(46-120)                                | FBP<br>(48-120) | TPH<br>(67-150) |
| 480-25086-1             | MW-2-091312        | 90                                             | 100             | 82              |
| LCS 480-80665/2-A       | Lab Control Sample | 97                                             | 104             | 125             |
| MB 480-80665/1-A        | Method Blank       | 77                                             | 84              | 119             |
| <b>Surrogate Legend</b> |                    |                                                |                 |                 |
| NBZ = Nitrobenzene-d5   |                    |                                                |                 |                 |
| FBP = 2-Fluorobiphenyl  |                    |                                                |                 |                 |
| TPH = p-Terphenyl-d14   |                    |                                                |                 |                 |

### Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID                | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|------------------------------|--------------------|------------------------------------------------|------------------|------------------|------------------|
|                              |                    | DCB1<br>(10-158)                               | DCB2<br>(10-158) | TCX1<br>(18-146) | TCX2<br>(18-146) |
| 480-25086-1                  | MW-2-091312        | 63                                             | 57               | 80               | 82               |
| LCS 480-80670/2-A            | Lab Control Sample | 50                                             | 49               | 78               | 82               |
| MB 480-80670/1-A             | Method Blank       | 56                                             | 55               | 84               | 92               |
| <b>Surrogate Legend</b>      |                    |                                                |                  |                  |                  |
| DCB = DCB Decachlorobiphenyl |                    |                                                |                  |                  |                  |
| TCX = Tetrachloro-m-xylene   |                    |                                                |                  |                  |                  |

### Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID                | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                  |                  |
|------------------------------|--------------------|------------------------------------------------|------------------|------------------|------------------|
|                              |                    | DCB1<br>(16-120)                               | DCB2<br>(16-120) | TCX1<br>(35-120) | TCX2<br>(35-120) |
| 480-25086-1                  | MW-2-091312        | 64                                             | 84               | 70               | 100              |
| LCS 480-81196/2-A            | Lab Control Sample | 72                                             | 90               | 80               | 101              |
| MB 480-81196/1-A             | Method Blank       | 89                                             | 107              | 71               | 91               |
| <b>Surrogate Legend</b>      |                    |                                                |                  |                  |                  |
| DCB = DCB Decachlorobiphenyl |                    |                                                |                  |                  |                  |
| TCX = Tetrachloro-m-xylene   |                    |                                                |                  |                  |                  |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-80695/5

Matrix: Water

Analysis Batch: 80695

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte             | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | ND           |                 | 1.0 | 0.79 | ug/L |   |          | 09/14/12 19:43 | 1       |
| 1,4-Dichlorobenzene | ND           |                 | 1.0 | 0.84 | ug/L |   |          | 09/14/12 19:43 | 1       |
| Benzene             | ND           |                 | 1.0 | 0.41 | ug/L |   |          | 09/14/12 19:43 | 1       |
| Chlorobenzene       | ND           |                 | 1.0 | 0.75 | ug/L |   |          | 09/14/12 19:43 | 1       |
| Ethylbenzene        | ND           |                 | 1.0 | 0.74 | ug/L |   |          | 09/14/12 19:43 | 1       |
| Xylenes, Total      | ND           |                 | 2.0 | 0.66 | ug/L |   |          | 09/14/12 19:43 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91              |                 | 66 - 137 |          | 09/14/12 19:43 | 1       |
| Toluene-d8 (Surr)            | 91              |                 | 71 - 126 |          | 09/14/12 19:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92              |                 | 73 - 120 |          | 09/14/12 19:43 | 1       |

Lab Sample ID: LCS 480-80695/3

Matrix: Water

Analysis Batch: 80695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,2-Dichlorobenzene | 25.0           | 23.1          |                  | ug/L |   | 92   | 77 - 120        |
| Benzene             | 25.0           | 22.7          |                  | ug/L |   | 91   | 71 - 124        |
| Chlorobenzene       | 25.0           | 23.4          |                  | ug/L |   | 94   | 72 - 120        |
| Ethylbenzene        | 25.0           | 22.6          |                  | ug/L |   | 90   | 77 - 123        |
| Xylenes, Total      | 75.0           | 68.4          |                  | ug/L |   | 91   | 76 - 122        |

| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 91               |                  | 66 - 137 |
| Toluene-d8 (Surr)            | 91               |                  | 71 - 126 |
| 4-Bromofluorobenzene (Surr)  | 94               |                  | 73 - 120 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-80665/1-A

Matrix: Water

Analysis Batch: 80875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80665

| Analyte         | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------------|-----------------|-----|------|------|---|----------------|----------------|---------|
| 4-Chloroaniline | ND           |                 | 5.0 | 0.59 | ug/L |   | 09/14/12 13:55 | 09/17/12 11:17 | 1       |
| Naphthalene     | ND           |                 | 5.0 | 0.76 | ug/L |   | 09/14/12 13:55 | 09/17/12 11:17 | 1       |

| Surrogate        | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5  | 77              |                 | 46 - 120 | 09/14/12 13:55 | 09/17/12 11:17 | 1       |
| 2-Fluorobiphenyl | 84              |                 | 48 - 120 | 09/14/12 13:55 | 09/17/12 11:17 | 1       |
| p-Terphenyl-d14  | 119             |                 | 67 - 150 | 09/14/12 13:55 | 09/17/12 11:17 | 1       |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-80665/2-A

Matrix: Water

Analysis Batch: 80875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80665

|                  | LCS       | LCS       |          |
|------------------|-----------|-----------|----------|
| Surrogate        | %Recovery | Qualifier | Limits   |
| Nitrobenzene-d5  | 97        |           | 46 - 120 |
| 2-Fluorobiphenyl | 104       |           | 48 - 120 |
| p-Terphenyl-d14  | 125       |           | 67 - 150 |

## Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-80670/1-A

Matrix: Water

Analysis Batch: 81073

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80670

| Analyte  | MB        | MB | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|----|-------|-------|------|---|----------------|----------------|---------|
| Result   | Qualifier |    |       |       |      |   |                |                |         |
| PCB-1016 | ND        |    | 0.060 | 0.038 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1221 | ND        |    | 0.060 | 0.038 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1232 | ND        |    | 0.060 | 0.038 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1242 | ND        |    | 0.060 | 0.038 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1248 | ND        |    | 0.060 | 0.038 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1254 | ND        |    | 0.060 | 0.031 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| PCB-1260 | ND        |    | 0.060 | 0.031 | ug/L |   | 09/14/12 14:03 | 09/18/12 14:32 | 1       |

|                        | MB        | MB        |          |  |  |  | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--|--|--|----------------|----------------|---------|
| Surrogate              | %Recovery | Qualifier | Limits   |  |  |  |                |                |         |
| DCB Decachlorobiphenyl | 56        |           | 10 - 158 |  |  |  | 09/14/12 14:03 | 09/18/12 14:32 | 1       |
| Tetrachloro-m-xylene   | 84        |           | 18 - 146 |  |  |  | 09/14/12 14:03 | 09/18/12 14:32 | 1       |

Lab Sample ID: LCS 480-80670/2-A

Matrix: Water

Analysis Batch: 81073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80670

|          |       | Spike  | LCS       | LCS  |   |      |          | %Rec. |  |
|----------|-------|--------|-----------|------|---|------|----------|-------|--|
| Analyte  | Added | Result | Qualifier | Unit | D | %Rec | Limits   |       |  |
| PCB-1016 | 1.00  | 0.996  |           | ug/L |   | 100  | 44 - 154 |       |  |
| PCB-1260 | 1.00  | 0.885  |           | ug/L |   | 88   | 34 - 150 |       |  |

|                        | LCS       | LCS       |          |
|------------------------|-----------|-----------|----------|
| Surrogate              | %Recovery | Qualifier | Limits   |
| DCB Decachlorobiphenyl | 50        |           | 10 - 158 |
| Tetrachloro-m-xylene   | 78        |           | 18 - 146 |

## Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-81196/1-A

Matrix: Water

Analysis Batch: 81416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81196

| Analyte  | MB        | MB | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|----|-------|--------|------|---|----------------|----------------|---------|
| Result   | Qualifier |    |       |        |      |   |                |                |         |
| 4,4'-DDD | ND        |    | 0.050 | 0.0092 | ug/L |   | 09/19/12 04:56 | 09/20/12 08:02 | 1       |
| 4,4'-DDE | ND        |    | 0.050 | 0.012  | ug/L |   | 09/19/12 04:56 | 09/20/12 08:02 | 1       |

|                        | MB        | MB        |          |  |  |  | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--|--|--|----------------|----------------|---------|
| Surrogate              | %Recovery | Qualifier | Limits   |  |  |  |                |                |         |
| DCB Decachlorobiphenyl | 89        |           | 16 - 120 |  |  |  | 09/19/12 04:56 | 09/20/12 08:02 | 1       |
| Tetrachloro-m-xylene   | 71        |           | 35 - 120 |  |  |  | 09/19/12 04:56 | 09/20/12 08:02 | 1       |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-81196/2-A

Matrix: Water

Analysis Batch: 81416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81196

| Analyte                | Spike Added | LCS Result    | LCS Qualifier | Unit     | D | %Rec | %Rec. Limits |
|------------------------|-------------|---------------|---------------|----------|---|------|--------------|
| 4,4'-DDD               | 0.500       | 0.469         |               | ug/L     |   | 94   | 59 - 135     |
| 4,4'-DDE               | 0.500       | 0.443         |               | ug/L     |   | 89   | 52 - 123     |
| Surrogate              | %Recovery   | LCS Qualifier | LCS           | Limits   |   |      |              |
| DCB Decachlorobiphenyl | 72          |               |               | 16 - 120 |   |      |              |
| Tetrachloro-m-xylene   | 80          |               |               | 35 - 120 |   |      |              |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-80646/1-A

Matrix: Water

Analysis Batch: 80972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80646

| Analyte   | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Chromium  | ND        |              | 0.0040 | 0.0010  | mg/L |   | 09/14/12 14:00 | 09/17/12 14:41 | 1       |
| Lead      | ND        |              | 0.0050 | 0.0030  | mg/L |   | 09/14/12 14:00 | 09/17/12 14:41 | 1       |
| Iron      | ND        |              | 0.050  | 0.019   | mg/L |   | 09/14/12 14:00 | 09/17/12 14:41 | 1       |
| Manganese | ND        |              | 0.0030 | 0.00040 | mg/L |   | 09/14/12 14:00 | 09/17/12 14:41 | 1       |

Lab Sample ID: LCS 480-80646/2-A

Matrix: Water

Analysis Batch: 80972

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80646

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Chromium  | 0.200       | 0.207      |               | mg/L |   | 103  | 80 - 120     |
| Lead      | 0.200       | 0.196      |               | mg/L |   | 98   | 80 - 120     |
| Iron      | 10.0        | 10.12      |               | mg/L |   | 101  | 80 - 120     |
| Manganese | 0.200       | 0.202      |               | mg/L |   | 101  | 80 - 120     |

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 480-80652/1-A

Matrix: Water

Analysis Batch: 81351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80652

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Antimony | ND        |              | 1.0  | 0.15  | ug/L |   | 09/17/12 08:45 | 09/18/12 20:47 | 1       |
| Arsenic  | ND        |              | 1.0  | 0.078 | ug/L |   | 09/17/12 08:45 | 09/18/12 20:47 | 1       |
| Cadmium  | 0.302     | J            | 0.50 | 0.018 | ug/L |   | 09/17/12 08:45 | 09/18/12 20:47 | 1       |

Lab Sample ID: LCS 480-80652/2-A

Matrix: Water

Analysis Batch: 81351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80652

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 20.0        | 20.88      |               | ug/L |   | 104  | 80 - 120     |
| Arsenic  | 20.0        | 19.90      |               | ug/L |   | 100  | 80 - 120     |
| Cadmium  | 20.0        | 20.74      |               | ug/L |   | 104  | 80 - 120     |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-80565/1-A

Matrix: Water

Analysis Batch: 80667

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80565

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.00020 | 0.00012 | mg/L |   | 09/14/12 09:00 | 09/14/12 12:00 | 1       |

Lab Sample ID: LCS 480-80565/2-A

Matrix: Water

Analysis Batch: 80667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80565

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Mercury | 0.00667        | 0.00633       |                  | mg/L |   | 95   | 80 - 120        |

# QC Association Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

## GC/MS VOA

### Analysis Batch: 80695

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1     | MW-2-091312        | Total/NA  | Water  | 8260B  |            |
| LCS 480-80695/3 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 480-80695/5  | Method Blank       | Total/NA  | Water  | 8260B  |            |

## GC/MS Semi VOA

### Prep Batch: 80665

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 3510C  |            |
| LCS 480-80665/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-80665/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 80875

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 8270C  | 80665      |
| LCS 480-80665/2-A | Lab Control Sample | Total/NA  | Water  | 8270C  | 80665      |
| MB 480-80665/1-A  | Method Blank       | Total/NA  | Water  | 8270C  | 80665      |

## GC Semi VOA

### Prep Batch: 80670

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 3510C  |            |
| LCS 480-80670/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-80670/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 81073

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 608    | 80670      |
| LCS 480-80670/2-A | Lab Control Sample | Total/NA  | Water  | 608    | 80670      |
| MB 480-80670/1-A  | Method Blank       | Total/NA  | Water  | 608    | 80670      |

### Prep Batch: 81196

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 3510C  |            |
| LCS 480-81196/2-A | Lab Control Sample | Total/NA  | Water  | 3510C  |            |
| MB 480-81196/1-A  | Method Blank       | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 81416

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 8081A  | 81196      |
| LCS 480-81196/2-A | Lab Control Sample | Total/NA  | Water  | 8081A  | 81196      |
| MB 480-81196/1-A  | Method Blank       | Total/NA  | Water  | 8081A  | 81196      |

## Metals

### Prep Batch: 80565

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 7470A  |            |
| LCS 480-80565/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |
| MB 480-80565/1-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

### Metals (Continued)

#### Prep Batch: 80646

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 3005A  |            |
| LCS 480-80646/2-A | Lab Control Sample | Total/NA  | Water  | 3005A  |            |
| MB 480-80646/1-A  | Method Blank       | Total/NA  | Water  | 3005A  |            |

#### Prep Batch: 80652

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 3020A  |            |
| LCS 480-80652/2-A | Lab Control Sample | Total/NA  | Water  | 3020A  |            |
| MB 480-80652/1-A  | Method Blank       | Total/NA  | Water  | 3020A  |            |

#### Analysis Batch: 80667

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 7470A  | 80565      |
| LCS 480-80565/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 80565      |
| MB 480-80565/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 80565      |

#### Analysis Batch: 80972

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| LCS 480-80646/2-A | Lab Control Sample | Total/NA  | Water  | 6010B  | 80646      |
| MB 480-80646/1-A  | Method Blank       | Total/NA  | Water  | 6010B  | 80646      |

#### Analysis Batch: 81047

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-25086-1   | MW-2-091312      | Total/NA  | Water  | 6010B  | 80646      |

#### Analysis Batch: 81351

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-25086-1       | MW-2-091312        | Total/NA  | Water  | 6020   | 80652      |
| LCS 480-80652/2-A | Lab Control Sample | Total/NA  | Water  | 6020   | 80652      |
| MB 480-80652/1-A  | Method Blank       | Total/NA  | Water  | 6020   | 80652      |

## Lab Chronicle

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

**Client Sample ID: MW-2-091312**

**Date Collected: 09/13/12 08:25**

**Date Received: 09/13/12 14:00**

**Lab Sample ID: 480-25086-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 80695        | 09/14/12 20:15       | TRB     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80665        | 09/14/12 13:55       | DE      | TAL BUF |
| Total/NA  | Analysis   | 8270C        |     | 1               | 80875        | 09/17/12 18:10       | HTL     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 80670        | 09/14/12 14:04       | DE      | TAL BUF |
| Total/NA  | Analysis   | 608          |     | 1               | 81073        | 09/18/12 16:56       | JM      | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 81196        | 09/19/12 05:00       | TR      | TAL BUF |
| Total/NA  | Analysis   | 8081A        |     | 1               | 81416        | 09/20/12 18:04       | LW      | TAL BUF |
| Total/NA  | Prep       | 7470A        |     |                 | 80565        | 09/14/12 09:00       | JRK     | TAL BUF |
| Total/NA  | Analysis   | 7470A        |     | 1               | 80667        | 09/14/12 12:37       | JRK     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 80646        | 09/14/12 14:00       | SS      | TAL BUF |
| Total/NA  | Analysis   | 6010B        |     | 1               | 81047        | 09/17/12 15:53       | LH      | TAL BUF |
| Total/NA  | Prep       | 3020A        |     |                 | 80652        | 09/17/12 08:45       | SS      | TAL BUF |
| Total/NA  | Analysis   | 6020         |     | 1               | 81351        | 09/18/12 23:36       | MM      | TAL BUF |

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

### Laboratory: TestAmerica Buffalo

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

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ      | State Program | 6          | 88-0686          | 07-06-13        |
| California        | NELAC         | 9          | 1169CA           | 09-30-12        |
| Connecticut       | State Program | 1          | PH-0568          | 09-30-12        |
| Florida           | NELAC         | 4          | E87672           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 03-31-13        |
| Georgia           | State Program | 4          | 956              | 03-31-12        |
| Illinois          | NELAC         | 5          | 200003           | 09-30-12        |
| Iowa              | State Program | 7          | 374              | 03-01-13        |
| Kansas            | NELAC         | 7          | E-10187          | 01-31-13        |
| Kentucky          | State Program | 4          | 90029            | 12-31-12        |
| Kentucky (UST)    | State Program | 4          | 30               | 04-01-13        |
| Louisiana         | NELAC         | 6          | 02031            | 06-30-13        |
| Maine             | State Program | 1          | NY00044          | 12-04-12        |
| Maryland          | State Program | 3          | 294              | 03-31-13        |
| Massachusetts     | State Program | 1          | M-NY044          | 06-30-13        |
| Michigan          | State Program | 5          | 9937             | 04-01-13        |
| Minnesota         | NELAC         | 5          | 036-999-337      | 12-31-12        |
| New Hampshire     | NELAC         | 1          | 2973             | 09-11-13        |
| New Hampshire     | NELAC         | 1          | 2337             | 11-17-12        |
| New Jersey        | NELAC         | 2          | NY455            | 06-30-13        |
| New York          | NELAC         | 2          | 10026            | 03-31-13        |
| North Dakota      | State Program | 8          | R-176            | 03-31-13        |
| Oklahoma          | State Program | 6          | 9421             | 08-31-13        |
| Oregon            | NELAC         | 10         | NY200003         | 06-09-13        |
| Pennsylvania      | NELAC         | 3          | 68-00281         | 07-31-13        |
| Tennessee         | State Program | 4          | TN02970          | 04-01-13        |
| Texas             | NELAC         | 6          | T104704412-11-2  | 07-31-13        |
| USDA              | Federal       |            | P330-11-00386    | 11-22-14        |
| Washington        | State Program | 10         | C784             | 02-10-13        |
| West Virginia DEP | State Program | 3          | 252              | 09-30-12        |
| Wisconsin         | State Program | 5          | 998310390        | 08-31-12        |

## Method Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

| Method | Method Description                     | Protocol  | Laboratory |
|--------|----------------------------------------|-----------|------------|
| 8260B  | Volatile Organic Compounds (GC/MS)     | SW846     | TAL BUF    |
| 8270C  | Semivolatile Organic Compounds (GC/MS) | SW846     | TAL BUF    |
| 608    | Polychlorinated Biphenyls (PCBs) (GC)  | 40CFR136A | TAL BUF    |
| 8081A  | Organochlorine Pesticides (GC)         | SW846     | TAL BUF    |
| 6010B  | Metals (ICP)                           | SW846     | TAL BUF    |
| 6020   | Metals (ICP/MS)                        | SW846     | TAL BUF    |
| 7470A  | Mercury (CVAA)                         | SW846     | TAL BUF    |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Honeywell International Inc  
Project/Site: 30130- Alltiff GW Monitoring

TestAmerica Job ID: 480-25086-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 480-25086-1   | MW-2-091312      | Water  | 09/13/12 08:25 | 09/13/12 14:00 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

## TestAmerica

[illegible]

## Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-25086-1

**Login Number: 25086**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Robitaille, Zach L**

| Question                                                                         | Answer | Comment   |
|----------------------------------------------------------------------------------|--------|-----------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |           |
| The cooler's custody seal, if present, is intact.                                | True   |           |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |           |
| Samples were received on ice.                                                    | True   |           |
| Cooler Temperature is acceptable.                                                | True   |           |
| Cooler Temperature is recorded.                                                  | True   |           |
| COC is present.                                                                  | True   |           |
| COC is filled out in ink and legible.                                            | True   |           |
| COC is filled out with all pertinent information.                                | True   |           |
| Is the Field Sampler's name present on COC?                                      | True   |           |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |           |
| Samples are received within Holding Time.                                        | True   |           |
| Sample containers have legible labels.                                           | True   |           |
| Containers are not broken or leaking.                                            | True   |           |
| Sample collection date/times are provided.                                       | True   |           |
| Appropriate sample containers are used.                                          | True   |           |
| Sample bottles are completely filled.                                            | True   |           |
| Sample Preservation Verified                                                     | True   |           |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |           |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |           |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |           |
| Multiphasic samples are not present.                                             | True   |           |
| Samples do not require splitting or compositing.                                 | True   |           |
| Sampling Company provided.                                                       | True   | HONEYWELL |
| Samples received within 48 hours of sampling.                                    | True   |           |
| Samples requiring field filtration have been filtered in the field.              | N/A    |           |
| Chlorine Residual checked.                                                       | True   | OK        |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-26220-1

Client Project/Site: 30130 - Alltft OM Phase

Revision: 1

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. John Mojka



Authorized for release by:

10/17/2012 6:23:53 PM

John Schove

Project Manager I

[john.schove@testamericainc.com](mailto:john.schove@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

Cover Page . . . . . 1

Table of Contents . . . . . 2

Definitions/Glossary . . . . . 3

Case Narrative . . . . . 4

Detection Summary . . . . . 5

Client Sample Results . . . . . 6

Surrogate Summary . . . . . 11

QC Sample Results . . . . . 12

QC Association Summary . . . . . 19

Lab Chronicle . . . . . 20

Certification Summary . . . . . 21

Method Summary . . . . . 22

Sample Summary . . . . . 23

Chain of Custody . . . . . 24

Receipt Checklists . . . . . 25



## Definitions/Glossary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                |
|-----------|--------------------------------------|
| F         | MS or MSD exceeds the control limits |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD exceeds the control limits                                                                         |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### General Chemistry

| Qualifier | Qualifier Description                             |
|-----------|---------------------------------------------------|
| HF        | Field parameter with a holding time of 15 minutes |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery                                                                                           |
| CNF            | Contains no Free Liquid                                                                                    |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit                                                                                  |
| EPA            | United States Environmental Protection Agency                                                              |
| MDL            | Method Detection Limit                                                                                     |
| ML             | Minimum Level (Dioxin)                                                                                     |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)                                               |
| PQL            | Practical Quantitation Limit                                                                               |
| QC             | Quality Control                                                                                            |
| RL             | Reporting Limit                                                                                            |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                        |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                      |

## Case Narrative

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

**Job ID: 480-26220-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-26220-1

#### Revision

This report has been revised to include the Priority Pollutant list of compounds for methods 624 and 625.

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2012 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

#### GC/MS VOA

Method(s) 624: The following samples were composited by the laboratory on 10/8/12 as requested on the chain-of-custody: (480-26220-7 MS), (480-26220-7 MSD), Grab 100512 (1-4 COMP) (480-26220-7).

Method(s) 624: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: (480-26220-7 MS), (480-26220-7 MSD), Grab 100512 (1-4 COMP) (480-26220-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 625: The continuing calibration verification (CCV) for multiple analytes associated with batch 84908 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 625: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 84701 exceeded control limits for the following analytes: 1,2,4-Trichlorobenzene, 2-Chloronaphthalene, and Hexachloroethane. The extended analyte list was requested post analysis and after holding times had expired, therefore the data is being reported as is.

No other analytical or quality issues were noted.

#### General Chemistry

Method(s) SM 2540D: The results reported for the following sample(s) do not concur with results previously reported for this site: COMP 100512 (480-26220-5). Reanalysis was performed (via the batch duplicate), and the result(s) confirmed.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute time frame: COMP 100512 (480-26220-5)

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

### Client Sample ID: COMP 100512

### Lab Sample ID: 480-26220-5

| Analyte                | Result | Qualifier | RL    | RL    | Unit | Dil Fac | D | Method       | Prep Type |
|------------------------|--------|-----------|-------|-------|------|---------|---|--------------|-----------|
| Total Suspended Solids | 44.0   |           | 4.0   | 4.0   | mg/L | 1       |   | SM 2540D     | Total/NA  |
| pH                     | 7.74   | HF        | 0.100 | 0.100 | SU   | 1       |   | SM 4500 H+ B | Total/NA  |

### Client Sample ID: 100512-TB

### Lab Sample ID: 480-26220-6

No Detections

### Client Sample ID: Grab 100512 (1-4 COMP)

### Lab Sample ID: 480-26220-7

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Chlorobenzene   | 63     |           | 40  | 3.8  | ug/L | 8       |   | 624    | Total/NA  |
| 4-Chloroaniline | 4.2    | J         | 5.0 | 0.69 | ug/L | 1       |   | 625    | Total/NA  |

## Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

**Client Sample ID: COMP 100512**

**Lab Sample ID: 480-26220-5**

**Date Collected: 10/05/12 13:00**

**Matrix: Water**

**Date Received: 10/05/12 14:40**

### General Chemistry

| Analyte                | Result | Qualifier | RL    | RL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Total Suspended Solids | 44.0   |           | 4.0   | 4.0   | mg/L |   |          | 10/08/12 21:52 | 1       |
| pH                     | 7.74   | HF        | 0.100 | 0.100 | SU   |   |          | 10/05/12 20:55 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

**Client Sample ID: 100512-TB**

**Lab Sample ID: 480-26220-6**

**Date Collected: 10/05/12 13:15**

**Matrix: Water**

**Date Received: 10/05/12 14:40**

## Method: 624 - Volatile Organic Compounds (GC/MS)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND     |           | 5.0 | 0.39 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,1,2,2-Tetrachloroethane | ND     |           | 5.0 | 0.26 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,1,2-Trichloroethane     | ND     |           | 5.0 | 0.48 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,1-Dichloroethane        | ND     |           | 5.0 | 0.59 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,1-Dichloroethene        | ND     |           | 5.0 | 0.85 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,2-Dichlorobenzene       | ND     |           | 5.0 | 0.44 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,2-Dichloroethane        | ND     |           | 5.0 | 0.60 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,2-Dichloroethene, Total | ND     |           | 10  | 3.2  | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,2-Dichloropropane       | ND     |           | 5.0 | 0.61 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,3-Dichlorobenzene       | ND     |           | 5.0 | 0.54 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 1,4-Dichlorobenzene       | ND     |           | 5.0 | 0.51 | ug/L |   |          | 10/08/12 21:06 | 1       |
| 2-Chloroethyl vinyl ether | ND     |           | 25  | 1.9  | ug/L |   |          | 10/08/12 21:06 | 1       |
| Acrolein                  | ND     |           | 100 | 17   | ug/L |   |          | 10/08/12 21:06 | 1       |
| Acrylonitrile             | ND     |           | 25  | 1.9  | ug/L |   |          | 10/08/12 21:06 | 1       |
| Benzene                   | ND     |           | 5.0 | 0.60 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Bromoform                 | ND     |           | 5.0 | 0.47 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Bromomethane              | ND     |           | 5.0 | 1.2  | ug/L |   |          | 10/08/12 21:06 | 1       |
| Carbon tetrachloride      | ND     |           | 5.0 | 0.51 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Chlorobenzene             | ND     |           | 5.0 | 0.48 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Chlorodibromomethane      | ND     |           | 5.0 | 0.41 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Chloroethane              | ND     |           | 5.0 | 0.87 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Chloroform                | ND     |           | 5.0 | 0.54 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Chloromethane             | ND     |           | 5.0 | 0.64 | ug/L |   |          | 10/08/12 21:06 | 1       |
| cis-1,3-Dichloropropene   | ND     |           | 5.0 | 0.33 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Dichlorobromomethane      | ND     |           | 5.0 | 0.54 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Ethylbenzene              | ND     |           | 5.0 | 0.46 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Methylene Chloride        | ND     |           | 5.0 | 0.81 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Tetrachloroethene         | ND     |           | 5.0 | 0.34 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Toluene                   | ND     |           | 5.0 | 0.45 | ug/L |   |          | 10/08/12 21:06 | 1       |
| trans-1,2-Dichloroethene  | ND     |           | 5.0 | 0.59 | ug/L |   |          | 10/08/12 21:06 | 1       |
| trans-1,3-Dichloropropene | ND     |           | 5.0 | 0.44 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Trichloroethene           | ND     |           | 5.0 | 0.60 | ug/L |   |          | 10/08/12 21:06 | 1       |
| Vinyl chloride            | ND     |           | 5.0 | 0.75 | ug/L |   |          | 10/08/12 21:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 72 - 130 |          | 10/08/12 21:06 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 69 - 121 |          | 10/08/12 21:06 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 70 - 123 |          | 10/08/12 21:06 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

**Client Sample ID: Grab 100512 (1-4 COMP)**

**Lab Sample ID: 480-26220-7**

**Date Collected: 10/05/12 13:00**

**Matrix: Water**

**Date Received: 10/05/12 14:40**

## Method: 624 - Volatile Organic Compounds (GC/MS)

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND     |           | 40  | 3.1 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,1,2,2-Tetrachloroethane | ND     |           | 40  | 2.1 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,1,2-Trichloroethane     | ND     |           | 40  | 3.9 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,1-Dichloroethane        | ND     |           | 40  | 4.7 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,1-Dichloroethene        | ND     |           | 40  | 6.8 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,2-Dichlorobenzene       | ND     |           | 40  | 3.6 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,2-Dichloroethane        | ND     |           | 40  | 4.8 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,2-Dichloroethene, Total | ND     |           | 80  | 26  | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,2-Dichloropropane       | ND     |           | 40  | 4.9 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,3-Dichlorobenzene       | ND     |           | 40  | 4.3 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 1,4-Dichlorobenzene       | ND     |           | 40  | 4.1 | ug/L |   |          | 10/08/12 21:29 | 8       |
| 2-Chloroethyl vinyl ether | ND     |           | 200 | 15  | ug/L |   |          | 10/08/12 21:29 | 8       |
| Acrolein                  | ND     |           | 800 | 140 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Acrylonitrile             | ND     |           | 200 | 15  | ug/L |   |          | 10/08/12 21:29 | 8       |
| Benzene                   | ND     |           | 40  | 4.8 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Bromoform                 | ND     |           | 40  | 3.7 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Bromomethane              | ND     |           | 40  | 9.5 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Carbon tetrachloride      | ND     |           | 40  | 4.1 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Chlorobenzene             | 63     |           | 40  | 3.8 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Chlorodibromomethane      | ND     |           | 40  | 3.3 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Chloroethane              | ND     |           | 40  | 7.0 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Chloroform                | ND     |           | 40  | 4.3 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Chloromethane             | ND     |           | 40  | 5.1 | ug/L |   |          | 10/08/12 21:29 | 8       |
| cis-1,3-Dichloropropene   | ND     |           | 40  | 2.6 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Dichlorobromomethane      | ND     |           | 40  | 4.3 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Ethylbenzene              | ND     |           | 40  | 3.7 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Methylene Chloride        | ND     |           | 40  | 6.5 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Tetrachloroethene         | ND     |           | 40  | 2.7 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Toluene                   | ND     |           | 40  | 3.6 | ug/L |   |          | 10/08/12 21:29 | 8       |
| trans-1,2-Dichloroethene  | ND     |           | 40  | 4.7 | ug/L |   |          | 10/08/12 21:29 | 8       |
| trans-1,3-Dichloropropene | ND     |           | 40  | 3.5 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Trichloroethene           | ND     |           | 40  | 4.8 | ug/L |   |          | 10/08/12 21:29 | 8       |
| Vinyl chloride            | ND     |           | 40  | 6.0 | ug/L |   |          | 10/08/12 21:29 | 8       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 72 - 130 |          | 10/08/12 21:29 | 8       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 69 - 121 |          | 10/08/12 21:29 | 8       |
| Toluene-d8 (Surr)            | 96        |           | 70 - 123 |          | 10/08/12 21:29 | 8       |

## Method: 625 - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND     | *         | 10  | 0.49  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 1,2-Dichlorobenzene    | ND     |           | 10  | 0.15  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 1,2-Diphenylhydrazine  | ND     |           | 10  | 0.063 | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 1,3-Dichlorobenzene    | ND     |           | 10  | 0.069 | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 1,4-Dichlorobenzene    | ND     |           | 10  | 0.090 | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2,4,6-Trichlorophenol  | ND     |           | 5.0 | 0.23  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2,4-Dichlorophenol     | ND     |           | 5.0 | 0.30  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2,4-Dimethylphenol     | ND     |           | 5.0 | 0.13  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2,4-Dinitrophenol      | ND     |           | 10  | 0.84  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2,4-Dinitrotoluene     | ND     |           | 5.0 | 0.26  | ug/L |   | 10/10/12 07:16 | 10/11/12 15:05 | 1       |

# Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

Client Sample ID: Grab 100512 (1-4 COMP)

Lab Sample ID: 480-26220-7

Date Collected: 10/05/12 13:00

Matrix: Water

Date Received: 10/05/12 14:40

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte                       | Result           | Qualifier        | RL            | MDL   | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-------|------|---|-----------------|-----------------|----------------|
| 2,6-Dinitrotoluene            | ND               |                  | 5.0           | 0.72  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 2-Chloronaphthalene           | ND               | *                | 5.0           | 0.068 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 2-Chlorophenol                | ND               |                  | 5.0           | 0.16  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 2-Nitrophenol                 | ND               |                  | 5.0           | 0.14  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 3,3'-Dichlorobenzidine        | ND               |                  | 5.0           | 0.82  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4,6-Dinitro-2-methylphenol    | ND               |                  | 10            | 0.76  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4-Bromophenyl phenyl ether    | ND               |                  | 5.0           | 0.11  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4-Chloro-3-methylphenol       | ND               |                  | 5.0           | 0.56  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4-Chloroaniline               | 4.2              | J                | 5.0           | 0.69  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4-Chlorophenyl phenyl ether   | ND               |                  | 5.0           | 0.21  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| 4-Nitrophenol                 | ND               |                  | 10            | 1.3   | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Acenaphthene                  | ND               |                  | 5.0           | 0.060 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Acenaphthylene                | ND               |                  | 5.0           | 0.034 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Anthracene                    | ND               |                  | 5.0           | 0.052 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzidine                     | ND               |                  | 80            | 2.5   | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzo[a]anthracene            | ND               |                  | 5.0           | 0.043 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzo[a]pyrene                | ND               |                  | 5.0           | 0.058 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzo[b]fluoranthene          | ND               |                  | 5.0           | 0.062 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzo[g,h,i]perylene          | ND               |                  | 5.0           | 0.10  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Benzo[k]fluoranthene          | ND               |                  | 5.0           | 0.042 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| bis (2-chloroisopropyl) ether | ND               |                  | 5.0           | 0.086 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Bis(2-chloroethoxy)methane    | ND               |                  | 5.0           | 0.085 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Bis(2-chloroethyl)ether       | ND               |                  | 5.0           | 1.1   | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Bis(2-ethylhexyl) phthalate   | ND               |                  | 10            | 0.86  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Butyl benzyl phthalate        | ND               |                  | 5.0           | 1.3   | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Chrysene                      | ND               |                  | 5.0           | 0.036 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Dibenz(a,h)anthracene         | ND               |                  | 5.0           | 0.055 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Diethyl phthalate             | ND               |                  | 5.0           | 0.17  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Dimethyl phthalate            | ND               |                  | 5.0           | 0.17  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Di-n-butyl phthalate          | ND               |                  | 5.0           | 0.94  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Di-n-octyl phthalate          | ND               |                  | 5.0           | 4.5   | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Fluoranthene                  | ND               |                  | 5.0           | 0.11  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Fluorene                      | ND               |                  | 5.0           | 0.043 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Hexachlorobenzene             | ND               |                  | 5.0           | 0.28  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Hexachlorobutadiene           | ND               |                  | 5.0           | 0.62  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Hexachlorocyclopentadiene     | ND               |                  | 5.0           | 0.45  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Hexachloroethane              | ND               | *                | 5.0           | 0.48  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Indeno[1,2,3-cd]pyrene        | ND               |                  | 5.0           | 0.19  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Isophorone                    | ND               |                  | 5.0           | 0.16  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Naphthalene                   | ND               |                  | 5.0           | 0.080 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Nitrobenzene                  | ND               |                  | 5.0           | 0.11  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| N-Nitrosodimethylamine        | ND               |                  | 10            | 0.96  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| N-Nitrosodi-n-propylamine     | ND               |                  | 5.0           | 0.23  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| N-Nitrosodiphenylamine        | ND               |                  | 5.0           | 0.40  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Pentachlorophenol             | ND               |                  | 10            | 0.41  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Phenanthrene                  | ND               |                  | 5.0           | 0.071 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Phenol                        | ND               |                  | 5.0           | 0.12  | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| Pyrene                        | ND               |                  | 5.0           | 0.041 | ug/L |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 2,4,6-Tribromophenol          | 104              |                  | 52 - 151      |       |      |   | 10/10/12 07:16  | 10/11/12 15:05  | 1              |

## Client Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

**Client Sample ID: Grab 100512 (1-4 COMP)**

**Lab Sample ID: 480-26220-7**

**Date Collected: 10/05/12 13:00**

**Matrix: Water**

**Date Received: 10/05/12 14:40**

### Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate        | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 80        |           | 44 - 120 | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| 2-Fluorophenol   | 42        |           | 17 - 120 | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| Nitrobenzene-d5  | 86        |           | 42 - 120 | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| Phenol-d5        | 27        |           | 10 - 120 | 10/10/12 07:16 | 10/11/12 15:05 | 1       |
| p-Terphenyl-d14  | 93        |           | 22 - 125 | 10/10/12 07:16 | 10/11/12 15:05 | 1       |

## Surrogate Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

### Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-----------------|------------------------|------------------------------------------------|-----------------|-----------------|
|                 |                        | 12DCE<br>(72-130)                              | BFB<br>(69-121) | TOL<br>(70-123) |
| 480-26220-6     | 100512-TB              | 91                                             | 102             | 97              |
| 480-26220-7     | Grab 100512 (1-4 COMP) | 93                                             | 101             | 96              |
| 480-26220-7 MS  | Grab 100512 (1-4 COMP) | 89                                             | 105             | 96              |
| 480-26220-7 MSD | Grab 100512 (1-4 COMP) | 89                                             | 104             | 94              |
| LCS 480-84403/4 | Lab Control Sample     | 92                                             | 105             | 99              |
| MB 480-84403/5  | Method Blank           | 91                                             | 102             | 97              |

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

### Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                 |                 |
|-------------------|------------------------|------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                   |                        | TBP<br>(52-151)                                | FBP<br>(44-120) | 2FP<br>(17-120) | NBZ<br>(42-120) | PHL<br>(10-120) | TPH<br>(22-125) |
| 480-26220-7       | Grab 100512 (1-4 COMP) | 104                                            | 80              | 42              | 86              | 27              | 93              |
| LCS 480-84701/2-A | Lab Control Sample     | 106                                            | 88              | 52              | 90              | 37              | 100             |
| MB 480-84701/1-A  | Method Blank           | 88                                             | 52              | 43              | 76              | 30              | 93              |

#### Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-84403/5

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | ND        |              | 5.0 | 0.39 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,1,2,2-Tetrachloroethane | ND        |              | 5.0 | 0.26 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,1,2-Trichloroethane     | ND        |              | 5.0 | 0.48 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,1-Dichloroethane        | ND        |              | 5.0 | 0.59 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,1-Dichloroethene        | ND        |              | 5.0 | 0.85 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,2-Dichlorobenzene       | ND        |              | 5.0 | 0.44 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,2-Dichloroethane        | ND        |              | 5.0 | 0.60 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,2-Dichloroethene, Total | ND        |              | 10  | 3.2  | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,2-Dichloropropane       | ND        |              | 5.0 | 0.61 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,3-Dichlorobenzene       | ND        |              | 5.0 | 0.54 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 1,4-Dichlorobenzene       | ND        |              | 5.0 | 0.51 | ug/L |   |          | 10/08/12 14:23 | 1       |
| 2-Chloroethyl vinyl ether | ND        |              | 25  | 1.9  | ug/L |   |          | 10/08/12 14:23 | 1       |
| Acrolein                  | ND        |              | 100 | 17   | ug/L |   |          | 10/08/12 14:23 | 1       |
| Acrylonitrile             | ND        |              | 25  | 1.9  | ug/L |   |          | 10/08/12 14:23 | 1       |
| Benzene                   | ND        |              | 5.0 | 0.60 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Bromoform                 | ND        |              | 5.0 | 0.47 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Bromomethane              | ND        |              | 5.0 | 1.2  | ug/L |   |          | 10/08/12 14:23 | 1       |
| Carbon tetrachloride      | ND        |              | 5.0 | 0.51 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Chlorobenzene             | ND        |              | 5.0 | 0.48 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Chlorodibromomethane      | ND        |              | 5.0 | 0.41 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Chloroethane              | ND        |              | 5.0 | 0.87 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Chloroform                | ND        |              | 5.0 | 0.54 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Chloromethane             | ND        |              | 5.0 | 0.64 | ug/L |   |          | 10/08/12 14:23 | 1       |
| cis-1,3-Dichloropropene   | ND        |              | 5.0 | 0.33 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Dichlorobromomethane      | ND        |              | 5.0 | 0.54 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Ethylbenzene              | ND        |              | 5.0 | 0.46 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Methylene Chloride        | ND        |              | 5.0 | 0.81 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Tetrachloroethene         | ND        |              | 5.0 | 0.34 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Toluene                   | ND        |              | 5.0 | 0.45 | ug/L |   |          | 10/08/12 14:23 | 1       |
| trans-1,2-Dichloroethene  | ND        |              | 5.0 | 0.59 | ug/L |   |          | 10/08/12 14:23 | 1       |
| trans-1,3-Dichloropropene | ND        |              | 5.0 | 0.44 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Trichloroethene           | ND        |              | 5.0 | 0.60 | ug/L |   |          | 10/08/12 14:23 | 1       |
| Vinyl chloride            | ND        |              | 5.0 | 0.75 | ug/L |   |          | 10/08/12 14:23 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91           |              | 72 - 130 |          | 10/08/12 14:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102          |              | 69 - 121 |          | 10/08/12 14:23 | 1       |
| Toluene-d8 (Surr)            | 97           |              | 70 - 123 |          | 10/08/12 14:23 | 1       |

Lab Sample ID: LCS 480-84403/4

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 20.0        | 20.3       |               | ug/L |   | 101  | 52 - 162     |
| 1,1,2,2-Tetrachloroethane | 20.0        | 17.5       |               | ug/L |   | 87   | 46 - 157     |
| 1,1,2-Trichloroethane     | 20.0        | 19.5       |               | ug/L |   | 98   | 52 - 150     |
| 1,1-Dichloroethane        | 20.0        | 20.1       |               | ug/L |   | 100  | 59 - 155     |
| 1,1-Dichloroethene        | 20.0        | 17.8       |               | ug/L |   | 89   | 1 - 234      |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-84403/4

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichlorobenzene       | 20.0        | 19.4       |               | ug/L |   | 97   | 18 - 190     |
| 1,2-Dichloroethane        | 20.0        | 19.6       |               | ug/L |   | 98   | 49 - 155     |
| 1,2-Dichloropropane       | 20.0        | 21.7       |               | ug/L |   | 108  | 1 - 210      |
| 1,3-Dichlorobenzene       | 20.0        | 18.7       |               | ug/L |   | 93   | 59 - 156     |
| 1,4-Dichlorobenzene       | 20.0        | 18.4       |               | ug/L |   | 92   | 18 - 190     |
| 2-Chloroethyl vinyl ether | 100         | 93.3       |               | ug/L |   | 93   | 1 - 305      |
| Benzene                   | 20.0        | 21.3       |               | ug/L |   | 106  | 37 - 151     |
| Bromoform                 | 20.0        | 14.6       |               | ug/L |   | 73   | 45 - 169     |
| Bromomethane              | 20.0        | 31.6       |               | ug/L |   | 158  | 1 - 242      |
| Carbon tetrachloride      | 20.0        | 18.6       |               | ug/L |   | 93   | 70 - 140     |
| Chlorobenzene             | 20.0        | 19.7       |               | ug/L |   | 99   | 37 - 160     |
| Chlorodibromomethane      | 20.0        | 17.1       |               | ug/L |   | 85   | 53 - 149     |
| Chloroethane              | 20.0        | 26.5       |               | ug/L |   | 133  | 14 - 230     |
| Chloroform                | 20.0        | 20.8       |               | ug/L |   | 104  | 51 - 138     |
| Chloromethane             | 20.0        | 22.1       |               | ug/L |   | 111  | 1 - 273      |
| cis-1,3-Dichloropropene   | 20.0        | 20.2       |               | ug/L |   | 101  | 1 - 227      |
| Dichlorobromomethane      | 20.0        | 19.4       |               | ug/L |   | 97   | 35 - 155     |
| Ethylbenzene              | 20.0        | 20.8       |               | ug/L |   | 104  | 37 - 162     |
| Methylene Chloride        | 20.0        | 21.9       |               | ug/L |   | 110  | 1 - 221      |
| Tetrachloroethene         | 20.0        | 19.1       |               | ug/L |   | 95   | 64 - 148     |
| Toluene                   | 20.0        | 20.0       |               | ug/L |   | 100  | 47 - 150     |
| trans-1,2-Dichloroethene  | 20.0        | 19.0       |               | ug/L |   | 95   | 54 - 156     |
| trans-1,3-Dichloropropene | 20.0        | 17.1       |               | ug/L |   | 85   | 17 - 183     |
| Trichloroethene           | 20.0        | 20.2       |               | ug/L |   | 101  | 71 - 157     |
| Vinyl chloride            | 20.0        | 23.2       |               | ug/L |   | 116  | 1 - 251      |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 92            |               | 72 - 130 |
| 4-Bromofluorobenzene (Surr)  | 105           |               | 69 - 121 |
| Toluene-d8 (Surr)            | 99            |               | 70 - 123 |

Lab Sample ID: 480-26220-7 MS

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Grab 100512 (1-4 COMP)

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | ND            |                  | 160         | 154       |              | ug/L |   | 96   | 52 - 162     |
| 1,1,1,2-Tetrachloroethane | ND            |                  | 160         | 119       |              | ug/L |   | 75   | 46 - 157     |
| 1,1,1,2-Trichloroethane   | ND            |                  | 160         | 133       |              | ug/L |   | 83   | 52 - 150     |
| 1,1-Dichloroethane        | ND            |                  | 160         | 156       |              | ug/L |   | 98   | 59 - 155     |
| 1,1-Dichloroethene        | ND            |                  | 160         | 149       |              | ug/L |   | 93   | 1 - 234      |
| 1,2-Dichlorobenzene       | ND            |                  | 160         | 137       |              | ug/L |   | 85   | 18 - 190     |
| 1,2-Dichloroethane        | ND            |                  | 160         | 142       |              | ug/L |   | 89   | 49 - 155     |
| 1,2-Dichloropropane       | ND            |                  | 160         | 158       |              | ug/L |   | 98   | 1 - 210      |
| 1,3-Dichlorobenzene       | ND            |                  | 160         | 129       |              | ug/L |   | 81   | 59 - 156     |
| 1,4-Dichlorobenzene       | ND            |                  | 160         | 128       |              | ug/L |   | 80   | 18 - 190     |
| 2-Chloroethyl vinyl ether | ND            |                  | 800         | ND        | F            | ug/L |   | 0    | 1 - 305      |
| Benzene                   | ND            |                  | 160         | 161       |              | ug/L |   | 101  | 37 - 151     |
| Bromoform                 | ND            |                  | 160         | 85.9      |              | ug/L |   | 54   | 45 - 169     |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-26220-7 MS

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Grab 100512 (1-4 COMP)

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Bromomethane              | ND            |                  | 160         | 212       |              | ug/L |   | 133  | 1 - 242      |
| Carbon tetrachloride      | ND            |                  | 160         | 142       |              | ug/L |   | 89   | 70 - 140     |
| Chlorobenzene             | 63            |                  | 160         | 189       |              | ug/L |   | 79   | 37 - 160     |
| Chlorodibromomethane      | ND            |                  | 160         | 111       |              | ug/L |   | 69   | 53 - 149     |
| Chloroethane              | ND            |                  | 160         | 213       |              | ug/L |   | 133  | 14 - 230     |
| Chloroform                | ND            |                  | 160         | 156       |              | ug/L |   | 97   | 51 - 138     |
| Chloromethane             | ND            |                  | 160         | 156       |              | ug/L |   | 97   | 1 - 273      |
| cis-1,3-Dichloropropene   | ND            |                  | 160         | 120       |              | ug/L |   | 75   | 1 - 227      |
| Dichlorobromomethane      | ND            |                  | 160         | 138       |              | ug/L |   | 86   | 35 - 155     |
| Ethylbenzene              | ND            |                  | 160         | 145       |              | ug/L |   | 91   | 37 - 162     |
| Methylene Chloride        | ND            |                  | 160         | 167       |              | ug/L |   | 104  | 1 - 221      |
| Tetrachloroethene         | ND            |                  | 160         | 133       |              | ug/L |   | 83   | 64 - 148     |
| Toluene                   | ND            |                  | 160         | 141       |              | ug/L |   | 88   | 47 - 150     |
| trans-1,2-Dichloroethene  | ND            |                  | 160         | 149       |              | ug/L |   | 93   | 54 - 156     |
| trans-1,3-Dichloropropene | ND            |                  | 160         | 101       |              | ug/L |   | 63   | 17 - 183     |
| Trichloroethene           | ND            |                  | 160         | 150       |              | ug/L |   | 93   | 71 - 157     |
| Vinyl chloride            | ND            |                  | 160         | 163       |              | ug/L |   | 102  | 1 - 251      |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 72 - 130 |
| 4-Bromofluorobenzene (Surr)  | 105          |              | 69 - 121 |
| Toluene-d8 (Surr)            | 96           |              | 70 - 123 |

Lab Sample ID: 480-26220-7 MSD

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Grab 100512 (1-4 COMP)

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane     | ND            |                  | 160         | 144        |               | ug/L |   | 90   | 52 - 162     | 6   | 15        |
| 1,1,1,2-Tetrachloroethane | ND            |                  | 160         | 122        |               | ug/L |   | 76   | 46 - 157     | 2   | 15        |
| 1,1,1,2-Trichloroethane   | ND            |                  | 160         | 135        |               | ug/L |   | 85   | 52 - 150     | 2   | 15        |
| 1,1-Dichloroethane        | ND            |                  | 160         | 150        |               | ug/L |   | 94   | 59 - 155     | 4   | 15        |
| 1,1-Dichloroethene        | ND            |                  | 160         | 141        |               | ug/L |   | 88   | 1 - 234      | 6   | 15        |
| 1,2-Dichlorobenzene       | ND            |                  | 160         | 136        |               | ug/L |   | 85   | 18 - 190     | 1   | 15        |
| 1,2-Dichloroethane        | ND            |                  | 160         | 139        |               | ug/L |   | 87   | 49 - 155     | 2   | 15        |
| 1,2-Dichloropropane       | ND            |                  | 160         | 153        |               | ug/L |   | 95   | 1 - 210      | 3   | 15        |
| 1,3-Dichlorobenzene       | ND            |                  | 160         | 127        |               | ug/L |   | 79   | 59 - 156     | 1   | 15        |
| 1,4-Dichlorobenzene       | ND            |                  | 160         | 129        |               | ug/L |   | 81   | 18 - 190     | 1   | 15        |
| 2-Chloroethyl vinyl ether | ND            |                  | 800         | ND         | F             | ug/L |   | 0    | 1 - 305      | NC  | 15        |
| Benzene                   | ND            |                  | 160         | 155        |               | ug/L |   | 97   | 37 - 151     | 4   | 15        |
| Bromoform                 | ND            |                  | 160         | 86.8       |               | ug/L |   | 54   | 45 - 169     | 1   | 15        |
| Bromomethane              | ND            |                  | 160         | 196        |               | ug/L |   | 123  | 1 - 242      | 8   | 15        |
| Carbon tetrachloride      | ND            |                  | 160         | 132        |               | ug/L |   | 82   | 70 - 140     | 8   | 15        |
| Chlorobenzene             | 63            |                  | 160         | 186        |               | ug/L |   | 77   | 37 - 160     | 2   | 15        |
| Chlorodibromomethane      | ND            |                  | 160         | 108        |               | ug/L |   | 67   | 53 - 149     | 3   | 15        |
| Chloroethane              | ND            |                  | 160         | 192        |               | ug/L |   | 120  | 14 - 230     | 10  | 15        |
| Chloroform                | ND            |                  | 160         | 151        |               | ug/L |   | 94   | 51 - 138     | 3   | 15        |
| Chloromethane             | ND            |                  | 160         | 151        |               | ug/L |   | 94   | 1 - 273      | 3   | 15        |
| cis-1,3-Dichloropropene   | ND            |                  | 160         | 120        |               | ug/L |   | 75   | 1 - 227      | 0   | 15        |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-26220-7 MSD

Matrix: Water

Analysis Batch: 84403

Client Sample ID: Grab 100512 (1-4 COMP)

Prep Type: Total/NA

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Dichlorobromomethane         | ND            |                  | 160         | 134        |               | ug/L |   | 84   | 35 - 155     | 2   | 15        |
| Ethylbenzene                 | ND            |                  | 160         | 141        |               | ug/L |   | 88   | 37 - 162     | 3   | 15        |
| Methylene Chloride           | ND            |                  | 160         | 163        |               | ug/L |   | 102  | 1 - 221      | 2   | 15        |
| Tetrachloroethene            | ND            |                  | 160         | 127        |               | ug/L |   | 79   | 64 - 148     | 4   | 15        |
| Toluene                      | ND            |                  | 160         | 134        |               | ug/L |   | 84   | 47 - 150     | 5   | 15        |
| trans-1,2-Dichloroethene     | ND            |                  | 160         | 143        |               | ug/L |   | 89   | 54 - 156     | 4   | 15        |
| trans-1,3-Dichloropropene    | ND            |                  | 160         | 100        |               | ug/L |   | 63   | 17 - 183     | 1   | 15        |
| Trichloroethene              | ND            |                  | 160         | 145        |               | ug/L |   | 91   | 71 - 157     | 3   | 15        |
| Vinyl chloride               | ND            |                  | 160         | 158        |               | ug/L |   | 99   | 1 - 251      | 4   | 15        |
| Surrogate                    | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |           |
| 1,2-Dichloroethane-d4 (Surr) | 89            |                  | 72 - 130    |            |               |      |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr)  | 104           |                  | 69 - 121    |            |               |      |   |      |              |     |           |
| Toluene-d8 (Surr)            | 94            |                  | 70 - 123    |            |               |      |   |      |              |     |           |

## Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-84701/1-A

Matrix: Water

Analysis Batch: 84908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84701

| Analyte                     | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene      | 1.13      | J            | 10  | 0.49  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 10  | 0.15  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 1,2-Diphenylhydrazine       | ND        |              | 10  | 0.063 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 10  | 0.069 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 10  | 0.090 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,4,6-Trichlorophenol       | ND        |              | 5.0 | 0.23  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,4-Dichlorophenol          | ND        |              | 5.0 | 0.30  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,4-Dimethylphenol          | ND        |              | 5.0 | 0.13  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,4-Dinitrophenol           | ND        |              | 10  | 0.84  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,4-Dinitrotoluene          | ND        |              | 5.0 | 0.26  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2,6-Dinitrotoluene          | ND        |              | 5.0 | 0.72  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2-Chloronaphthalene         | ND        |              | 5.0 | 0.068 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2-Chlorophenol              | ND        |              | 5.0 | 0.16  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2-Nitrophenol               | ND        |              | 5.0 | 0.14  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 3,3'-Dichlorobenzidine      | ND        |              | 5.0 | 0.82  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND        |              | 10  | 0.76  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4-Bromophenyl phenyl ether  | ND        |              | 5.0 | 0.11  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4-Chloro-3-methylphenol     | ND        |              | 5.0 | 0.56  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4-Chloroaniline             | ND        |              | 5.0 | 0.69  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4-Chlorophenyl phenyl ether | ND        |              | 5.0 | 0.21  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 4-Nitrophenol               | ND        |              | 10  | 1.3   | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Acenaphthene                | ND        |              | 5.0 | 0.060 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Acenaphthylene              | ND        |              | 5.0 | 0.034 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Anthracene                  | ND        |              | 5.0 | 0.052 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Benzidine                   | ND        |              | 80  | 2.5   | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Benzo[a]anthracene          | ND        |              | 5.0 | 0.043 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Benzo[a]pyrene              | ND        |              | 5.0 | 0.058 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-84701/1-A

Matrix: Water

Analysis Batch: 84908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84701

| Analyte                       | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|-----|-------|------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene          | ND        |              | 5.0 | 0.062 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Benzo[g,h,i]perylene          | ND        |              | 5.0 | 0.10  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Benzo[k]fluoranthene          | ND        |              | 5.0 | 0.042 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| bis (2-chloroisopropyl) ether | ND        |              | 5.0 | 0.086 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Bis(2-chloroethoxy)methane    | ND        |              | 5.0 | 0.085 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Bis(2-chloroethyl)ether       | ND        |              | 5.0 | 1.1   | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND        |              | 10  | 0.86  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Butyl benzyl phthalate        | ND        |              | 5.0 | 1.3   | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Chrysene                      | ND        |              | 5.0 | 0.036 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Dibenz(a,h)anthracene         | ND        |              | 5.0 | 0.055 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Diethyl phthalate             | ND        |              | 5.0 | 0.17  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Dimethyl phthalate            | ND        |              | 5.0 | 0.17  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Di-n-butyl phthalate          | ND        |              | 5.0 | 0.94  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Di-n-octyl phthalate          | ND        |              | 5.0 | 4.5   | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Fluoranthene                  | ND        |              | 5.0 | 0.11  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Fluorene                      | ND        |              | 5.0 | 0.043 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Hexachlorobenzene             | ND        |              | 5.0 | 0.28  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Hexachlorobutadiene           | ND        |              | 5.0 | 0.62  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Hexachlorocyclopentadiene     | ND        |              | 5.0 | 0.45  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Hexachloroethane              | ND        |              | 5.0 | 0.48  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Indeno[1,2,3-cd]pyrene        | ND        |              | 5.0 | 0.19  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Isophorone                    | ND        |              | 5.0 | 0.16  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Naphthalene                   | ND        |              | 5.0 | 0.080 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Nitrobenzene                  | ND        |              | 5.0 | 0.11  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| N-Nitrosodimethylamine        | ND        |              | 10  | 0.96  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| N-Nitrosodi-n-propylamine     | ND        |              | 5.0 | 0.23  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| N-Nitrosodiphenylamine        | ND        |              | 5.0 | 0.40  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Pentachlorophenol             | ND        |              | 10  | 0.41  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Phenanthrene                  | ND        |              | 5.0 | 0.071 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Phenol                        | ND        |              | 5.0 | 0.12  | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Pyrene                        | ND        |              | 5.0 | 0.041 | ug/L |   | 10/10/12 07:16 | 10/11/12 10:21 | 1       |

| Surrogate            | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 88           |              | 52 - 151 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2-Fluorobiphenyl     | 52           |              | 44 - 120 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| 2-Fluorophenol       | 43           |              | 17 - 120 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Nitrobenzene-d5      | 76           |              | 42 - 120 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| Phenol-d5            | 30           |              | 10 - 120 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |
| p-Terphenyl-d14      | 93           |              | 22 - 125 | 10/10/12 07:16 | 10/11/12 10:21 | 1       |

Lab Sample ID: LCS 480-84701/2-A

Matrix: Water

Analysis Batch: 84908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84701

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2,4-Trichlorobenzene | 100         | 39.2       | *             | ug/L |   | 39   | 44 - 142     |
| 1,2-Dichlorobenzene    | 100         | 35.5       |               | ug/L |   | 35   | 32 - 129     |
| 1,3-Dichlorobenzene    | 100         | 31.7       |               | ug/L |   | 32   | 1 - 172      |
| 1,4-Dichlorobenzene    | 100         | 32.5       |               | ug/L |   | 33   | 20 - 124     |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-84701/2-A

Matrix: Water

Analysis Batch: 84908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84701

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 2,4,6-Trichlorophenol         | 100         | 104        |               | ug/L |   | 104  | 37 - 144     |
| 2,4-Dichlorophenol            | 100         | 93.5       |               | ug/L |   | 93   | 39 - 135     |
| 2,4-Dimethylphenol            | 100         | 90.5       |               | ug/L |   | 90   | 32 - 119     |
| 2,4-Dinitrophenol             | 100         | 94.5       |               | ug/L |   | 94   | 1 - 191      |
| 2,4-Dinitrotoluene            | 100         | 108        |               | ug/L |   | 108  | 39 - 139     |
| 2,6-Dinitrotoluene            | 100         | 112        |               | ug/L |   | 112  | 50 - 158     |
| 2-Chloronaphthalene           | 100         | 51.0       | *             | ug/L |   | 51   | 60 - 118     |
| 2-Chlorophenol                | 100         | 77.6       |               | ug/L |   | 78   | 23 - 134     |
| 2-Nitrophenol                 | 100         | 91.2       |               | ug/L |   | 91   | 29 - 182     |
| 3,3'-Dichlorobenzidine        | 97.0        | 55.2       |               | ug/L |   | 57   | 1 - 262      |
| 4,6-Dinitro-2-methylphenol    | 100         | 107        |               | ug/L |   | 107  | 1 - 181      |
| 4-Bromophenyl phenyl ether    | 100         | 98.8       |               | ug/L |   | 99   | 53 - 127     |
| 4-Chloro-3-methylphenol       | 100         | 93.3       |               | ug/L |   | 93   | 22 - 147     |
| 4-Chlorophenyl phenyl ether   | 100         | 80.8       |               | ug/L |   | 81   | 25 - 158     |
| 4-Nitrophenol                 | 100         | 53.1       |               | ug/L |   | 53   | 1 - 132      |
| Acenaphthene                  | 100         | 67.1       |               | ug/L |   | 67   | 47 - 145     |
| Acenaphthylene                | 100         | 71.4       |               | ug/L |   | 71   | 33 - 145     |
| Anthracene                    | 100         | 104        |               | ug/L |   | 104  | 27 - 133     |
| Benzo[a]anthracene            | 100         | 101        |               | ug/L |   | 101  | 33 - 143     |
| Benzo[a]pyrene                | 100         | 107        |               | ug/L |   | 107  | 17 - 163     |
| Benzo[b]fluoranthene          | 100         | 105        |               | ug/L |   | 105  | 24 - 159     |
| Benzo[g,h,i]perylene          | 100         | 141        |               | ug/L |   | 141  | 1 - 219      |
| Benzo[k]fluoranthene          | 100         | 98.2       |               | ug/L |   | 98   | 11 - 162     |
| bis (2-chloroisopropyl) ether | 100         | 76.1       |               | ug/L |   | 76   | 36 - 166     |
| Bis(2-chloroethoxy)methane    | 100         | 92.5       |               | ug/L |   | 92   | 33 - 184     |
| Bis(2-chloroethyl)ether       | 100         | 81.2       |               | ug/L |   | 81   | 12 - 158     |
| Bis(2-ethylhexyl) phthalate   | 100         | 101        |               | ug/L |   | 101  | 8 - 158      |
| Butyl benzyl phthalate        | 100         | 106        |               | ug/L |   | 106  | 1 - 152      |
| Chrysene                      | 100         | 105        |               | ug/L |   | 105  | 17 - 168     |
| Dibenz(a,h)anthracene         | 100         | 130        |               | ug/L |   | 130  | 1 - 227      |
| Diethyl phthalate             | 100         | 107        |               | ug/L |   | 107  | 1 - 114      |
| Dimethyl phthalate            | 100         | 103        |               | ug/L |   | 103  | 1 - 112      |
| Di-n-butyl phthalate          | 100         | 103        |               | ug/L |   | 103  | 1 - 118      |
| Di-n-octyl phthalate          | 100         | 109        |               | ug/L |   | 109  | 4 - 146      |
| Fluoranthene                  | 100         | 107        |               | ug/L |   | 107  | 26 - 137     |
| Fluorene                      | 100         | 87.9       |               | ug/L |   | 88   | 59 - 121     |
| Hexachlorobenzene             | 100         | 104        |               | ug/L |   | 104  | 1 - 152      |
| Hexachlorocyclopentadiene     | 100         | 27.3       |               | ug/L |   | 27   | 5 - 120      |
| Hexachloroethane              | 100         | 28.5       | *             | ug/L |   | 29   | 40 - 113     |
| Indeno[1,2,3-cd]pyrene        | 100         | 133        |               | ug/L |   | 133  | 1 - 171      |
| Isophorone                    | 100         | 99.7       |               | ug/L |   | 100  | 21 - 196     |
| Naphthalene                   | 100         | 49.7       |               | ug/L |   | 50   | 21 - 133     |
| Nitrobenzene                  | 100         | 88.8       |               | ug/L |   | 89   | 35 - 180     |
| N-Nitrosodi-n-propylamine     | 100         | 93.1       |               | ug/L |   | 93   | 1 - 230      |
| N-Nitrosodiphenylamine        | 100         | 99.1       |               | ug/L |   | 99   | 54 - 125     |
| Pentachlorophenol             | 100         | 103        |               | ug/L |   | 103  | 14 - 176     |
| Phenanthrene                  | 100         | 101        |               | ug/L |   | 101  | 54 - 120     |
| Phenol                        | 100         | 43.3       |               | ug/L |   | 43   | 5 - 112      |
| Pyrene                        | 100         | 104        |               | ug/L |   | 104  | 52 - 115     |

# QC Sample Results

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

## Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-84701/2-A

Matrix: Water

Analysis Batch: 84908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84701

| Surrogate            | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------------|------------------|------------------|----------|
| 2,4,6-Tribromophenol | 106              |                  | 52 - 151 |
| 2-Fluorobiphenyl     | 88               |                  | 44 - 120 |
| 2-Fluorophenol       | 52               |                  | 17 - 120 |
| Nitrobenzene-d5      | 90               |                  | 42 - 120 |
| Phenol-d5            | 37               |                  | 10 - 120 |
| p-Terphenyl-d14      | 100              |                  | 22 - 125 |

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-84462/1

Matrix: Water

Analysis Batch: 84462

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL  | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND           |                 | 4.0 | 4.0 | mg/L |   |          | 10/08/12 21:48 | 1       |

Lab Sample ID: LCS 480-84462/2

Matrix: Water

Analysis Batch: 84462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Suspended Solids | 207            | 196.0         |                  | mg/L |   | 95   | 88 - 110        |

Lab Sample ID: 480-26220-5 DU

Matrix: Water

Analysis Batch: 84462

Client Sample ID: COMP 100512

Prep Type: Total/NA

| Analyte                | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Total Suspended Solids | 44.0             |                     | 46.40        |                 | mg/L |   | 5   | 15           |

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-84171/1

Matrix: Water

Analysis Batch: 84171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| pH      | 7.00           | 7.010         |                  | SU   |   | 100  | 99 - 101        |

## QC Association Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

### GC/MS VOA

#### Analysis Batch: 84403

| Lab Sample ID   | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------------|-----------|--------|--------|------------|
| 480-26220-6     | 100512-TB              | Total/NA  | Water  | 624    |            |
| 480-26220-7     | Grab 100512 (1-4 COMP) | Total/NA  | Water  | 624    |            |
| 480-26220-7 MS  | Grab 100512 (1-4 COMP) | Total/NA  | Water  | 624    |            |
| 480-26220-7 MSD | Grab 100512 (1-4 COMP) | Total/NA  | Water  | 624    |            |
| LCS 480-84403/4 | Lab Control Sample     | Total/NA  | Water  | 624    |            |
| MB 480-84403/5  | Method Blank           | Total/NA  | Water  | 624    |            |

### GC/MS Semi VOA

#### Prep Batch: 84701

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 480-26220-7       | Grab 100512 (1-4 COMP) | Total/NA  | Water  | 625    |            |
| LCS 480-84701/2-A | Lab Control Sample     | Total/NA  | Water  | 625    |            |
| MB 480-84701/1-A  | Method Blank           | Total/NA  | Water  | 625    |            |

#### Analysis Batch: 84908

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 480-26220-7       | Grab 100512 (1-4 COMP) | Total/NA  | Water  | 625    | 84701      |
| LCS 480-84701/2-A | Lab Control Sample     | Total/NA  | Water  | 625    | 84701      |
| MB 480-84701/1-A  | Method Blank           | Total/NA  | Water  | 625    | 84701      |

### General Chemistry

#### Analysis Batch: 84171

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|-----------------|--------------------|-----------|--------|--------------|------------|
| 480-26220-5     | COMP 100512        | Total/NA  | Water  | SM 4500 H+ B |            |
| LCS 480-84171/1 | Lab Control Sample | Total/NA  | Water  | SM 4500 H+ B |            |

#### Analysis Batch: 84462

| Lab Sample ID   | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-----------------|--------------------|-----------|--------|----------|------------|
| 480-26220-5     | COMP 100512        | Total/NA  | Water  | SM 2540D |            |
| 480-26220-5 DU  | COMP 100512        | Total/NA  | Water  | SM 2540D |            |
| LCS 480-84462/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |
| MB 480-84462/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |

## Lab Chronicle

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

**Client Sample ID: COMP 100512**

**Date Collected: 10/05/12 13:00**

**Date Received: 10/05/12 14:40**

**Lab Sample ID: 480-26220-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 H+ B |     | 1               | 84171        | 10/05/12 20:55       | KS      | TAL BUF |
| Total/NA  | Analysis   | SM 2540D     |     | 1               | 84462        | 10/08/12 21:52       | KS      | TAL BUF |

**Client Sample ID: 100512-TB**

**Date Collected: 10/05/12 13:15**

**Date Received: 10/05/12 14:40**

**Lab Sample ID: 480-26220-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 624          |     | 1               | 84403        | 10/08/12 21:06       | TRB     | TAL BUF |

**Client Sample ID: Grab 100512 (1-4 COMP)**

**Date Collected: 10/05/12 13:00**

**Date Received: 10/05/12 14:40**

**Lab Sample ID: 480-26220-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 624          |     | 8               | 84403        | 10/08/12 21:29       | TRB     | TAL BUF |
| Total/NA  | Prep       | 625          |     |                 | 84701        | 10/10/12 07:16       | TR      | TAL BUF |
| Total/NA  | Analysis   | 625          |     | 1               | 84908        | 10/11/12 15:05       | AM      | TAL BUF |

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltiff OM Phase

TestAmerica Job ID: 480-26220-1

### Laboratory: TestAmerica Buffalo

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

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ      | State Program | 6          | 88-0686          | 07-06-13        |
| California        | NELAC         | 9          | 1169CA           | 09-30-12        |
| Connecticut       | State Program | 1          | PH-0568          | 09-30-14        |
| Florida           | NELAC         | 4          | E87672           | 06-30-13        |
| Georgia           | State Program | 4          | N/A              | 03-31-13        |
| Georgia           | State Program | 4          | 956              | 06-30-13        |
| Georgia           | State Program | 4          | 956              | 03-31-12        |
| Illinois          | NELAC         | 5          | 200003           | 09-30-12        |
| Iowa              | State Program | 7          | 374              | 03-01-13        |
| Kansas            | NELAC         | 7          | E-10187          | 01-31-13        |
| Kentucky          | State Program | 4          | 90029            | 12-31-12        |
| Kentucky (UST)    | State Program | 4          | 30               | 04-01-13        |
| Louisiana         | NELAC         | 6          | 02031            | 06-30-13        |
| Maine             | State Program | 1          | NY00044          | 12-04-12        |
| Maryland          | State Program | 3          | 294              | 03-31-13        |
| Massachusetts     | State Program | 1          | M-NY044          | 06-30-13        |
| Michigan          | State Program | 5          | 9937             | 04-01-13        |
| Minnesota         | NELAC         | 5          | 036-999-337      | 12-31-12        |
| New Hampshire     | NELAC         | 1          | 2973             | 09-11-13        |
| New Hampshire     | NELAC         | 1          | 2337             | 11-17-12        |
| New Jersey        | NELAC         | 2          | NY455            | 06-30-13        |
| New York          | NELAC         | 2          | 10026            | 03-31-13        |
| North Dakota      | State Program | 8          | R-176            | 03-31-13        |
| Oklahoma          | State Program | 6          | 9421             | 08-31-13        |
| Oregon            | NELAC         | 10         | NY200003         | 06-09-13        |
| Pennsylvania      | NELAC         | 3          | 68-00281         | 07-31-13        |
| Tennessee         | State Program | 4          | TN02970          | 04-01-13        |
| Texas             | NELAC         | 6          | T104704412-11-2  | 07-31-13        |
| USDA              | Federal       |            | P330-11-00386    | 11-22-14        |
| Virginia          | NELAC         | 3          | 460185           | 09-14-13        |
| Washington        | State Program | 10         | C784             | 02-10-13        |
| West Virginia DEP | State Program | 3          | 252              | 09-30-13        |
| Wisconsin         | State Program | 5          | 998310390        | 08-31-13        |

## Method Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

| Method       | Method Description                     | Protocol  | Laboratory |
|--------------|----------------------------------------|-----------|------------|
| 624          | Volatile Organic Compounds (GC/MS)     | 40CFR136A | TAL BUF    |
| 625          | Semivolatile Organic Compounds (GC/MS) | 40CFR136A | TAL BUF    |
| SM 2540D     | Solids, Total Suspended (TSS)          | SM        | TAL BUF    |
| SM 4500 H+ B | pH                                     | SM        | TAL BUF    |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Honeywell International Inc  
Project/Site: 30130 - Alltft OM Phase

TestAmerica Job ID: 480-26220-1

| Lab Sample ID | Client Sample ID       | Matrix | Collected      | Received       |
|---------------|------------------------|--------|----------------|----------------|
| 480-26220-5   | COMP 100512            | Water  | 10/05/12 13:00 | 10/05/12 14:40 |
| 480-26220-6   | 100512-TB              | Water  | 10/05/12 13:15 | 10/05/12 14:40 |
| 480-26220-7   | Grab 100512 (1-4 COMP) | Water  | 10/05/12 13:00 | 10/05/12 14:40 |

## Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                 |                              |                                  |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|--------------------|---------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Client Information</b>                                                                                                                                                                                                                                       |                              | Sampler:<br>Patrick Higgins      |                    | Lab PM:<br>John Schove                      |                                                                                     | Center Tracking No(s):                                                                                                                                                                                                             |                   | COC No:<br>480-21387-2026.1                                                                                                                                                            |                |
| Client Contact:<br>John Formoza                                                                                                                                                                                                                                 |                              | Phone:<br>315-468-1663           |                    | E-Mail:<br>john.schove@testamericainc.com   |                                                                                     |                                                                                                                                                                                                                                    |                   | Page:<br>Page 1 of 1                                                                                                                                                                   |                |
| Company:<br>Honeywell International Inc                                                                                                                                                                                                                         |                              |                                  |                    |                                             |                                                                                     | <b>Analysis Requested</b>                                                                                                                                                                                                          |                   | Job #:                                                                                                                                                                                 |                |
| Address:<br>1563 Willis Ave.                                                                                                                                                                                                                                    |                              | Due Date Requested:              |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   | Preservation Codes:                                                                                                                                                                    |                |
| City:<br>Syracuse                                                                                                                                                                                                                                               |                              | TAT Requested (days):<br>2 Weeks |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA               |                |
| State, Zip:<br>NY, 13204                                                                                                                                                                                                                                        |                              |                                  |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   | M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - ph 4-5<br>Z - other (specify) |                |
| Phone:<br>315-468-1663                                                                                                                                                                                                                                          |                              | PO #:<br>4500018811              |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| Email:<br>john.formoza@ch2m.com                                                                                                                                                                                                                                 |                              | WO #:                            |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| Project Name:<br>Honeywell - Alltiff OM phase / Semi Annual                                                                                                                                                                                                     |                              | Project #:<br>48003159           |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| Site:<br>Honeywell - Buffalo Sites                                                                                                                                                                                                                              |                              | SSOWF:                           |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| <b>Location Identification</b>                                                                                                                                                                                                                                  | <b>Sample Identification</b> | <b>Sample Date</b>               | <b>Sample Time</b> | <b>Sample Type<br/>(C=Comp,<br/>G=grab)</b> | <b>Matrix<br/>(T=water,<br/>S=solid,<br/>O=soil/sediment,<br/>ST=Tissue, A=Air)</b> | VOC - Method 821                                                                                                                                                                                                                   | SPEC - Method 822 | Total Suspended Solid - Method 2540D                                                                                                                                                   | ph - SM4500_H+ |
| ALLTIFT COLL SUMP PUMP                                                                                                                                                                                                                                          | GRAB 1 100512                | 10/5/12                          | 6700               | G                                           | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 3                                                                                                                                                                                      | 2              |
| ALLTIFT COLL SUMP PUMP                                                                                                                                                                                                                                          | GRAB 2 100512                | 10/5/12                          | 0900               | G                                           | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 3                                                                                                                                                                                      | 2              |
| ALLTIFT COLL SUMP PUMP                                                                                                                                                                                                                                          | GRAB 3 100512                | 10/5/12                          | 1100               | G                                           | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 3                                                                                                                                                                                      | 2              |
| ALLTIFT COLL SUMP PUMP                                                                                                                                                                                                                                          | GRAB 4 100512                | 10/5/12                          | 1300               | G                                           | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 3                                                                                                                                                                                      | 2              |
| ALLTIFT COLL SUMP PUMP                                                                                                                                                                                                                                          | COMP 100512                  | 10/5/12                          | 1300               | C                                           | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 1                                                                                                                                                                                      | 1              |
| TRIBBLANK                                                                                                                                                                                                                                                       | 100512 -TB                   | 10/5/12                          | 1315               |                                             | W                                                                                   | N                                                                                                                                                                                                                                  | N                 | 1                                                                                                                                                                                      |                |
| <b>Possible Hazard Identification</b><br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |                              |                                  |                    |                                             |                                                                                     | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                   |                                                                                                                                                                                        |                |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                          |                              |                                  |                    |                                             |                                                                                     |                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| Empty Kit Relinquished by: <i>Patrick Higgins</i>                                                                                                                                                                                                               |                              |                                  |                    |                                             |                                                                                     | Method of Shipment:                                                                                                                                                                                                                |                   |                                                                                                                                                                                        |                |
| Relinquished by: <i>Patrick Higgins</i>                                                                                                                                                                                                                         |                              |                                  |                    |                                             |                                                                                     | Date/Time: <i>10/5/12 14:40</i>                                                                                                                                                                                                    |                   |                                                                                                                                                                                        |                |
| Relinquished by:                                                                                                                                                                                                                                                |                              |                                  |                    |                                             |                                                                                     | Date/Time:                                                                                                                                                                                                                         |                   |                                                                                                                                                                                        |                |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                       |                              |                                  |                    |                                             |                                                                                     | Cooler Temperature(s) °C and Other Remarks: <i>24 #2</i>                                                                                                                                                                           |                   |                                                                                                                                                                                        |                |

## Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-26220-1

Login Number: 26220

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

| Question                                                                         | Answer | Comment   |
|----------------------------------------------------------------------------------|--------|-----------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |           |
| The cooler's custody seal, if present, is intact.                                | True   |           |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |           |
| Samples were received on ice.                                                    | True   |           |
| Cooler Temperature is acceptable.                                                | True   |           |
| Cooler Temperature is recorded.                                                  | True   |           |
| COC is present.                                                                  | True   |           |
| COC is filled out in ink and legible.                                            | True   |           |
| COC is filled out with all pertinent information.                                | True   |           |
| Is the Field Sampler's name present on COC?                                      | True   |           |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |           |
| Samples are received within Holding Time.                                        | True   |           |
| Sample containers have legible labels.                                           | True   |           |
| Containers are not broken or leaking.                                            | True   |           |
| Sample collection date/times are provided.                                       | True   |           |
| Appropriate sample containers are used.                                          | True   |           |
| Sample bottles are completely filled.                                            | True   |           |
| Sample Preservation Verified                                                     | True   |           |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |           |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |           |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |           |
| Multiphasic samples are not present.                                             | True   |           |
| Samples do not require splitting or compositing.                                 | False  |           |
| Sampling Company provided.                                                       | True   | HONEYWELL |
| Samples received within 48 hours of sampling.                                    | True   |           |
| Samples requiring field filtration have been filtered in the field.              | N/A    |           |
| Chlorine Residual checked.                                                       | True   | OK        |

## **APPENDIX G**

### **SITE INSPECTION FORMS**



View along access road facing North



View along access road facing South



View from lift station facing wetlands



View from lift station facing the landfill cover

## Site Inspection Form

Site Name: Alltift  
 Project Number: 30130  
 Date: 2/28/12

Weather: Cloudy  
 Assessment by: John W. Formoza

| Yes                                 | No                                  | N/A                      |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **A. Security**

1. Does fence exist? \_\_\_\_\_
2. Is there a breach in fence? \_\_\_\_\_
3. Locks on gate? \_\_\_\_\_
4. Posted signs? \_\_\_\_\_
5. Signs of trespassers/vandalism? \_\_\_\_\_
6. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **B. General Site Conditions**

1. Vegetation stress? \_\_\_\_\_
2. Mowing required? \_\_\_\_\_
3. Access road drivable? \_\_\_\_\_
4. Odors? \_\_\_\_\_
5. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **C. Cap Inspection**

1. Exposed waste? \_\_\_\_\_
2. Side slope stable? \_\_\_\_\_
3. Erosion? \_\_\_\_\_
4. Leachate seeps (discolored vegetation)? \_\_\_\_\_
5. Synthetic liner exposed? \_\_\_\_\_
6. Bare spots? \_\_\_\_\_
7. Presence of burrowing animals? \_\_\_\_\_
8. Deep rooted vegetation? \_\_\_\_\_
9. Cracking? \_\_\_\_\_
10. Ponding water? \_\_\_\_\_
11. Evidence of methane seeps? \_\_\_\_\_
12. Other \_\_\_\_\_

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### **D. Surface Water**

1. Obstruction of flow ditches? \_\_\_\_\_
2. Erosion of ditches? \_\_\_\_\_
3. Silt & erosion control? \_\_\_\_\_
4. Culverts in good condition? \_\_\_\_\_
5. Evidence of overflow or uncontrolled flow? \_\_\_\_\_
6. Outfalls in good condition? \_\_\_\_\_
7. Sedimentation basin/ponds secure? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

### **E. Methane Gas Control**

1. Does one exist? \_\_\_\_\_

## Site Inspection Form

Yes      No      N/A

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

2. Is system active or passive? active
3. Permanent methane gas probes? \_\_\_\_\_
4. Locks on monitoring wells? \_\_\_\_\_
5. Vents in working order? One vent in need of replacment (GV2)
6. Well seals in place? \_\_\_\_\_
7. Methane levels within LEL limits? Readings taken 1/27/12
8. Monitoring reports current?
9. Other \_\_\_\_\_

### **F. Leachate Collection System**

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

1. Does one exist? \_\_\_\_\_

2. Collection method:

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- a. Sump? 2
- b. Well point? \_\_\_\_\_
- c. Earthen basin/pond? \_\_\_\_\_
- d. Structure secured? \_\_\_\_\_
- e. Other \_\_\_\_\_

3. Pumping system:

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- a. Automatic? \_\_\_\_\_
- b. Manual? \_\_\_\_\_
- c. Mechanically operable? \_\_\_\_\_
- d. Leaks/failures? \_\_\_\_\_

4. Disposals:

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- a. Onsite pretreatment/treatment? \_\_\_\_\_
- b. Surface discharge? (NPDES/SPDES) \_\_\_\_\_
- c. POTW – hardpiped? \_\_\_\_\_
- d. Quick disconnect caps in place? \_\_\_\_\_

5. Transportation (if any):

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

- a. Chemicals? \_\_\_\_\_
- b. Filter cake? \_\_\_\_\_

6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

7. Monitoring reports current? \_\_\_\_\_

8. Other \_\_\_\_\_

### **G. Groundwater Monitoring & Recovery Wells (if any)**

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

1. Locks on wells? \_\_\_\_\_
2. Wells in good condition? \_\_\_\_\_
3. Well seals in good condition? \_\_\_\_\_
4. Access to wells? \_\_\_\_\_
5. Monitoring reports current? \_\_\_\_\_
6. Other \_\_\_\_\_

## Site Inspection Form

Yes      No      N/A

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) \_\_\_\_\_
2. Visual tank inspection performed? \_\_\_\_\_
3. Visual inspection of pipes, valves, fittings etc.? \_\_\_\_\_
4. Pump operation/inspection performed? \_\_\_\_\_
5. Instruments operation/calibration? \_\_\_\_\_
6. Mixer operation/inspection? \_\_\_\_\_
7. Proper personal protection equipment? \_\_\_\_\_
8. Air compressor system functioning properly? \_\_\_\_\_
9. Filter press inspected? \_\_\_\_\_
10. Emergency generator functioning properly? \_\_\_\_\_

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? \_\_\_\_\_
2. Damage due ice and/or ice flowages? \_\_\_\_\_
3. Impacts or damage due to the periodic dredging of the Buffalo River? \_\_\_\_\_
4. Impacts or damage due to navigation activities in the Buffalo River? \_\_\_\_\_
5. Establishment of woody plant growth causing displacement or stress on the system? \_\_\_\_\_
6. Areas of settlement or displacement of the system? \_\_\_\_\_
7. Erosion at the upstream and downstream limits of the system? \_\_\_\_\_
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? \_\_\_\_\_
9. Damage to the stone infill within the marine mattresses? \_\_\_\_\_
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? \_\_\_\_\_

### J. General Comments

John Formoza met Mr. Syrmanske from the NYSDEC on February 28, 2012 at 10:30 am.

We walked the access road and cap. Mr. Syrmanske did not have any comments. He does want to stop out during the wetland planting and mowing.. The inspection took approximately 1 hour. One gas vent (GV2) needs replacment. It appear it was damaged from the high winds.

## Site Inspection Form

Site Name: Alltift

Project Number: 30130

Date: 6/6/12

Weather: Sunny

Assessment by: Mohammed Mohammed

| Yes | No | N/A |
|-----|----|-----|
|-----|----|-----|

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **A. Security**

1. Does fence exist? \_\_\_\_\_
2. Is there a breach in fence? \_\_\_\_\_
3. Locks on gate? \_\_\_\_\_
4. Posted signs? \_\_\_\_\_
5. Signs of trespassers/vandalism? \_\_\_\_\_
6. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **B. General Site Conditions**

1. Vegetation stress? \_\_\_\_\_
2. Mowing required? \_\_\_\_\_
3. Access road drivable? \_\_\_\_\_
4. Odors? \_\_\_\_\_
5. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### **C. Cap Inspection**

1. Exposed waste? \_\_\_\_\_
2. Side slope stable? \_\_\_\_\_
3. Erosion? \_\_\_\_\_
4. Leachate seeps (discolored vegetation)? \_\_\_\_\_
5. Synthetic liner exposed? \_\_\_\_\_
6. Bare spots? \_\_\_\_\_
7. Presence of burrowing animals? \_\_\_\_\_
8. Deep rooted vegetation? \_\_\_\_\_
9. Cracking? \_\_\_\_\_
10. Ponding water? \_\_\_\_\_
11. Evidence of methane seeps? \_\_\_\_\_
12. Other \_\_\_\_\_

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### **D. Surface Water**

1. Obstruction of flow ditches? \_\_\_\_\_
2. Erosion of ditches? \_\_\_\_\_
3. Silt & erosion control? \_\_\_\_\_
4. Culverts in good condition? \_\_\_\_\_
5. Evidence of overflow or uncontrolled flow? \_\_\_\_\_
6. Outfalls in good condition? \_\_\_\_\_
7. Sedimentation basin/ponds secure? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

### **E. Methane Gas Control**

1. Does one exist? \_\_\_\_\_

## Site Inspection Form

Yes      No      N/A

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

2. Is system active or passive? active
3. Permanent methane gas probes? \_\_\_\_\_
4. Locks on monitoring wells? \_\_\_\_\_
5. Vents in working order? One vent in need of replacment (GV1)
6. Well seals in place? \_\_\_\_\_
7. Methane levels within LEL limits? Readings taken 4/5/12
8. Monitoring reports current? \_\_\_\_\_
9. Other \_\_\_\_\_

### **F. Leachate Collection System**

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Does one exist? \_\_\_\_\_
2. Collection method:
  - a. Sump? 2
  - b. Well point? \_\_\_\_\_
  - c. Earthen basin/pond? \_\_\_\_\_
  - d. Structure secured? \_\_\_\_\_
  - e. Other \_\_\_\_\_
3. Pumping system:
  - a. Automatic? \_\_\_\_\_
  - b. Manual? \_\_\_\_\_
  - c. Mechanically operable? \_\_\_\_\_
  - d. Leaks/failures? \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

4. Disposals:
  - a. Onsite pretreatment/treatment? \_\_\_\_\_
  - b. Surface discharge? (NPDES/SPDES) \_\_\_\_\_
  - c. POTW – hardpiped? Y
  - d. Quick disconnect caps in place? \_\_\_\_\_

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

5. Transportation (if any):
  - a. Chemicals? \_\_\_\_\_
  - b. Filter cake? \_\_\_\_\_
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) \_\_\_\_\_
7. Monitoring reports current? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

### **G. Groundwater Monitoring & Recovery Wells (if any)**

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

1. Locks on wells? \_\_\_\_\_
2. Wells in good condition? \_\_\_\_\_
3. Well seals in good condition? \_\_\_\_\_
4. Access to wells? \_\_\_\_\_
5. Monitoring reports current? \_\_\_\_\_
6. Other \_\_\_\_\_

## Site Inspection Form

Yes      No      N/A

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) \_\_\_\_\_
2. Visual tank inspection performed? \_\_\_\_\_
3. Visual inspection of pipes, valves, fittings etc.? \_\_\_\_\_
4. Pump operation/inspection performed? \_\_\_\_\_
5. Instruments operation/calibration? \_\_\_\_\_
6. Mixer operation/inspection? \_\_\_\_\_
7. Proper personal protection equipment? \_\_\_\_\_
8. Air compressor system functioning properly? \_\_\_\_\_
9. Filter press inspected? \_\_\_\_\_
10. Emergency generator functioning properly? \_\_\_\_\_

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? \_\_\_\_\_
2. Damage due ice and/or ice flowages? \_\_\_\_\_
3. Impacts or damage due to the periodic dredging of the Buffalo River? \_\_\_\_\_
4. Impacts or damage due to navigation activities in the Buffalo River? \_\_\_\_\_
5. Establishment of woody plant growth causing displacement or stress on the system? \_\_\_\_\_
6. Areas of settlement or displacement of the system? \_\_\_\_\_
7. Erosion at the upstream and downstream limits of the system? \_\_\_\_\_
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? \_\_\_\_\_
9. Damage to the stone infill within the marine mattresses? \_\_\_\_\_
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? \_\_\_\_\_

### J. General Comments

Mohammed Mohammed met Mr. Szymanski from the NYSDEC on June 6, 2012 at 12:10 PM. We walked the access road and cap. Mr. Szymanski did not have any comments. We walked thru the plantation area to check the progress of the work. The inspection took approximately 1.5 hour. One gas vent (GV1) needs replacment. It appears it was damaged from the high winds.



## Site Inspection Form

Site Name: AlltiffProject Number: 30130Date: 9-18-12Weather: RainingAssessment by: Mike Stout

| Yes | No | N/A |
|-----|----|-----|
|-----|----|-----|

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**A. Security**

1. Does fence exist? \_\_\_\_\_
2. Is there a breach in fence? \_\_\_\_\_
3. Locks on gate? \_\_\_\_\_
4. Posted signs? \_\_\_\_\_
5. Signs of trespassers/vandalism? \_\_\_\_\_
6. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**B. General Site Conditions**

1. Vegetation stress? \_\_\_\_\_
2. Mowing required? \_\_\_\_\_
3. Access road drivable? \_\_\_\_\_
4. Odors? \_\_\_\_\_
5. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**C. Cap Inspection**

1. Exposed waste? \_\_\_\_\_
2. Side slope stable? \_\_\_\_\_
3. Erosion? \_\_\_\_\_
4. Leachate seeps (discolored vegetation)? \_\_\_\_\_
5. Synthetic liner exposed? \_\_\_\_\_
6. Bare spots? \_\_\_\_\_
7. Presence of burrowing animals? \_\_\_\_\_
8. Deep rooted vegetation? \_\_\_\_\_
9. Cracking? \_\_\_\_\_
10. Ponding water? \_\_\_\_\_
11. Evidence of methane seeps? \_\_\_\_\_
12. Other \_\_\_\_\_

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**D. Surface Water**

1. Obstruction of flow ditches? \_\_\_\_\_
2. Erosion of ditches? \_\_\_\_\_
3. Silt & erosion control? \_\_\_\_\_
4. Culverts in good condition? \_\_\_\_\_
5. Evidence of overflow or uncontrolled flow? \_\_\_\_\_
6. Outfalls in good condition? \_\_\_\_\_
7. Sedimentation basin/ponds secure? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

**E. Methane Gas Control**

1. Does one exist? \_\_\_\_\_



## Site Inspection Form

| Yes                                 | No                                  | N/A                      |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

2. Is system active or passive? active
3. Permanent methane gas probes?
4. Locks on monitoring wells?
5. Vents in working order?
6. Well seals in place?
7. Methane levels within LEL limits?
8. Monitoring reports current?
9. Other

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**F. Leachate Collection System**

1. Does one exist?
2. Collection method:
  - a. Sump? 2
  - b. Well point?
  - c. Earthen basin/pond?
  - d. Structure secured?
  - e. Other
3. Pumping system:
  - a. Automatic?
  - b. Manual?
  - c. Mechanically operable?
  - d. Leaks/failures?
4. Disposals:
  - a. Onsite pretreatment/treatment?
  - b. Surface discharge? (NPDES/SPDES)
  - c. POTW – hardpiped? yes
  - d. Quick disconnect caps in place?
5. Transportation (if any):
  - a. Chemicals?
  - b. Filter cake?
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.)
7. Monitoring reports current?
8. Other

**G. Groundwater Monitoring & Recovery Wells (if any)**

1. Locks on wells?
2. Wells in good condition?
3. Well seals in good condition?
4. Access to wells?
5. Monitoring reports current?
6. Other



## Site Inspection Form

| Yes | No | N/A |
|-----|----|-----|
|-----|----|-----|

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**H. Treatment Plant**

1. Building in good condition? (Doors, windows, wells, roof) \_\_\_\_\_
2. Visual tank inspection performed? \_\_\_\_\_
3. Visual inspection of pipes, valves, fittings etc.? \_\_\_\_\_
4. Pump operation/inspection performed? \_\_\_\_\_
5. Instruments operation/calibration? \_\_\_\_\_
6. Mixer operation/inspection? \_\_\_\_\_
7. Proper personal protection equipment? \_\_\_\_\_
8. Air compressor system functioning properly? \_\_\_\_\_
9. Filter press inspected? \_\_\_\_\_
10. Emergency generator functioning properly? \_\_\_\_\_

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**I. Polymeric Marine Mattress (PMM)**

1. Damage due to burrowing animals? \_\_\_\_\_
2. Damage due ice and/or ice flowages? \_\_\_\_\_
3. Impacts or damage due to the periodic dredging of the Buffalo River? \_\_\_\_\_
4. Impacts or damage due to navigation activities in the Buffalo River? \_\_\_\_\_
5. Establishment of woody plant growth causing displacement or stress on the system? \_\_\_\_\_
6. Areas of settlement or displacement of the system? \_\_\_\_\_
7. Erosion at the upstream and downstream limits of the system? \_\_\_\_\_
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? \_\_\_\_\_
9. Damage to the stone infill within the marine mattresses? \_\_\_\_\_
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? \_\_\_\_\_

**J. General Comments**

Mike Stout met with Mr. Dave Szymanski from the NYSDEC on September 18, 2012 at 9:30 am. Mr. Szymanski walk the 6 wetland pods, the top of the cap and perimeter. He did not have any comments or concerns. The inspection took approximately 1 hour and 45 minutes. All gas vents were operational.

Mike Stout



## Site Inspection Form

Site Name: AlltiffProject Number: 30130Date: 11/20/2012Weather: Partially cloudy 40fAssessment by: Mohammed Mohammed

| Yes                                 | No                                  | N/A                      |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**A. Security**

1. Does fence exist? \_\_\_\_\_
2. Is there a breach in fence? \_\_\_\_\_
3. Locks on gate? \_\_\_\_\_
4. Posted signs? \_\_\_\_\_
5. Signs of trespassers/vandalism? \_\_\_\_\_
6. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**B. General Site Conditions**

1. Vegetation stress? \_\_\_\_\_
2. Mowing required? \_\_\_\_\_
3. Access road drivable? \_\_\_\_\_
4. Odors? \_\_\_\_\_
5. Other \_\_\_\_\_

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**C. Cap Inspection**

1. Exposed waste? \_\_\_\_\_
2. Side slope stable? \_\_\_\_\_
3. Erosion? \_\_\_\_\_
4. Leachate seeps (discolored vegetation)? \_\_\_\_\_
5. Synthetic liner exposed? \_\_\_\_\_
6. Bare spots? \_\_\_\_\_
7. Presence of burrowing animals? \_\_\_\_\_
8. Deep rooted vegetation? \_\_\_\_\_
9. Cracking? \_\_\_\_\_
10. Ponding water? \_\_\_\_\_
11. Evidence of methane seeps? \_\_\_\_\_
12. Other \_\_\_\_\_

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**D. Surface Water**

1. Obstruction of flow ditches? \_\_\_\_\_
2. Erosion of ditches? \_\_\_\_\_
3. Silt & erosion control? \_\_\_\_\_
4. Culverts in good condition? \_\_\_\_\_
5. Evidence of overflow or uncontrolled flow? \_\_\_\_\_
6. Outfalls in good condition? \_\_\_\_\_
7. Sedimentation basin/ponds secure? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

**E. Methane Gas Control**

1. Does one exist? \_\_\_\_\_



## Site Inspection Form

Yes      No      N/A

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

2. Is system active or passive? active
3. Permanent methane gas probes? \_\_\_\_\_
4. Locks on monitoring wells? \_\_\_\_\_
5. Vents in working order? \_\_\_\_\_
6. Well seals in place? \_\_\_\_\_
7. Methane levels within LEL limits? \_\_\_\_\_
8. Monitoring reports current? \_\_\_\_\_
9. Other \_\_\_\_\_

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

### **F. Leachate Collection System**

1. Does one exist? \_\_\_\_\_
2. Collection method:
  - a. Sump? 2
  - b. Well point? \_\_\_\_\_
  - c. Earthen basin/pond? \_\_\_\_\_
  - d. Structure secured? \_\_\_\_\_
  - e. Other \_\_\_\_\_
3. Pumping system:
  - a. Automatic? \_\_\_\_\_
  - b. Manual? \_\_\_\_\_
  - c. Mechanically operable? \_\_\_\_\_
  - d. Leaks/failures? \_\_\_\_\_
4. Disposals:
  - a. Onsite pretreatment/treatment? \_\_\_\_\_
  - b. Surface discharge? (NPDES/SPDES) \_\_\_\_\_
  - c. POTW – hardpiped? \_\_\_\_\_
  - d. Quick disconnect caps in place? \_\_\_\_\_
5. Transportation (if any):
  - a. Chemicals? \_\_\_\_\_
  - b. Filter cake? \_\_\_\_\_
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) \_\_\_\_\_
7. Monitoring reports current? \_\_\_\_\_
8. Other \_\_\_\_\_

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|                                     |                                     |                          |
|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

|                                     |                          |                                     |
|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### **G. Groundwater Monitoring & Recovery Wells (if any)**

1. Locks on wells? \_\_\_\_\_
2. Wells in good condition? \_\_\_\_\_
3. Well seals in good condition? \_\_\_\_\_
4. Access to wells? \_\_\_\_\_
5. Monitoring reports current? \_\_\_\_\_
6. Other \_\_\_\_\_



## Site Inspection Form

| Yes                      | No                       | N/A                                 |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) \_\_\_\_\_
2. Visual tank inspection performed? \_\_\_\_\_
3. Visual inspection of pipes, valves, fittings etc.? \_\_\_\_\_
4. Pump operation/inspection performed? \_\_\_\_\_
5. Instruments operation/calibration? \_\_\_\_\_
6. Mixer operation/inspection? \_\_\_\_\_
7. Proper personal protection equipment? \_\_\_\_\_
8. Air compressor system functioning properly? \_\_\_\_\_
9. Filter press inspected? \_\_\_\_\_
10. Emergency generator functioning properly? \_\_\_\_\_

|                          |                          |                                     |
|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? \_\_\_\_\_
2. Damage due ice and/or ice flowages? \_\_\_\_\_
3. Impacts or damage due to the periodic dredging of the Buffalo River? \_\_\_\_\_
4. Impacts or damage due to navigation activities in the Buffalo River? \_\_\_\_\_
5. Establishment of woody plant growth causing displacement or stress on the system? \_\_\_\_\_
6. Areas of settlement or displacement of the system? \_\_\_\_\_
7. Erosion at the upstream and downstream limits of the system? \_\_\_\_\_
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? \_\_\_\_\_
9. Damage to the stone infill within the marine mattresses? \_\_\_\_\_
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? \_\_\_\_\_

### J. General Comments

THE NYSDEC DID NOT ATTEND.

Mohammed Mohammed

11/20/12