

## BUREAU VERITAS NORTH AMERICA, INC.'S CONSULTING AGREEMENT

This Agreement is made and entered into by and between the client ("Client") and Bureau Veritas North America, Inc., hereinafter ("BVNA").

These Terms and Conditions govern the work to be performed by Bureau Veritas North America, Inc. ("BVNA"), as specified in the proposal prepared by BVNA of which these Terms and Conditions are a part thereof.

### RECITALS

WHEREAS, BVNA is trained, experienced and competent to perform the services which will be required by this Agreement;

WHEREAS, BVNA is willing to render the professional services described herein on the following terms and conditions;

WHEREAS, All services will be conducted in accordance with the proposal and these attached terms and conditions.

NOW, THEREFORE, the parties agree as follows:

### AGREEMENT

- 1. Initiation of Services:** To initiate services, please complete and return the attached "Proposal Acceptance Agreement" form. All parties agree that any services performed by BVNA prior to the Client executing the attached "Proposal Acceptance Agreement" form are governed by these referenced terms and conditions. No subsequent amendment to this Agreement shall be binding on either BVNA or Client unless reduced to writing and signed by an authorized Representative of BVNA and Client. Any pre-printed forms including, but not limited to: purchase orders, shipping instructions, or sales acknowledgment forms of either party containing terms or conditions at variance with or in addition to those set forth herein shall not in any event be deemed to modify or vary the terms of this Consulting Agreement.
- 2. Scope of Services:** BVNA shall provide its services at the time, place, and in the manner specified in the proposal.
- 3. Time of Performance:** The services of BVNA are to commence upon execution of this Agreement and shall continue until all authorized work is completed. BVNA shall use commercially reasonable best efforts in performing services under these Terms and Conditions, and the Companion Documents ("Agreement"). Companion Documents shall mean any documents accompanying BVNA's Proposal, including but not limited to the Scope of Work, Fee Schedules or any other Exhibits specific to the project. BVNA shall not be responsible for failure to perform its services if i) there is a failure or delay by Client or its contractors in providing BVNA with the necessary access to properties, documentation, information, or materials; ii) Client or its contractors fail to approve or disapprove BVNA's work; or iii) if Client causes delays in any way whatsoever. In any of these events, BVNA's time for completion of its service shall be extended accordingly. BVNA shall not be responsible for failure to perform if such failure is due to any act of God, labor trouble, fire, inclement weather, act of governmental authority, failure of transportation, accident, power failure or interruption, or any other cause reasonably beyond BVNA's control. In any of these events, BVNA's time for completion of its services shall be extended accordingly.
- 4. Safety Responsibilities:** If BVNA provides a safety and health officer at the Site where the work is to be done, BVNA will advise Client regarding deficiencies with respect to specifications and applicable regulations. BVNA is not responsible for the failure of Client or its agents to follow the recommendations of BVNA's personnel. Where BVNA provides a safety and health officer it shall be authorized to take measures on behalf of Client that, in BVNA's opinion, will maintain generally accepted health and safety standards for personnel at the Site.
- 5. Site Conditions:** It is understood and agreed that (i) BVNA is not, and has no responsibility as an owner, handler, generator, operator, treater, storer, arranger, transporter or disposer of hazardous or toxic substances found or identified at the Site; and (ii) Client shall undertake to arrange for the handling, removal, treatment, storage, transportation, and disposal of hazardous substances or constituents found or identified at the Site. Client understands and acknowledges that (i) Client may be requesting BVNA to undertake services or work for the benefit of Client involving the presence or potential presence of hazardous substances; and (ii) BVNA may be exposed to claims arising out of, or involving actual, alleged, or threatened discharge, disposal or release or escape of hazardous or potentially hazardous pollutants including, but not limited to, solid, liquid, gaseous or thermal irritants or contaminants including smoke, water, vapor, soot, fumes, acids, alkalis, chemicals, wastes, and waste materials, and Client understands and agrees that BVNA shall only be responsible for losses which directly result from BVNA's negligence. Client will grant to, or obtain for, BVNA unimpeded access to the Project site for all equipment and personnel necessary for the performance of the Services, and (if requested by BVNA) necessary for BVNA's personnel to photograph the Project site. As required to effectuate such access, Client will notify all owners, lessees, contractors, subcontractors, and other possessors of the Project site that BVNA must be allowed free access to the site. While BVNA agrees to take reasonable precautions to minimize damage to the site, Client understands that, in the normal course of performing the Services, some damage may occur, and further understands that BVNA is not responsible for the correction of any such damage unless so specified in the Proposal. Client is responsible for the accuracy of locations for all subterranean structures and utilities. BVNA will take reasonable precautions to avoid known subterranean structures and utilities, and Client waives any claim against BVNA, and agrees to defend, indemnify, and hold BVNA harmless from any claim or liability for injury or loss of any party, including costs of defense, arising from damage done to subterranean structures and utilities not identified or accurately located. In addition, Client agrees to compensate BVNA for any time spent or expenses incurred by BVNA in defense of any such claim with compensation to be based upon BVNA's prevailing fee schedule and expense reimbursement policy.
- 6. Contamination:** Client acknowledges that it is impossible for BVNA to know the exact composition of a site's subsurface, even after conducting a comprehensive exploratory program. As a result, there is a risk that drilling and sampling may result in contamination of certain subsurface areas. Although BVNA will take reasonable precautions to avoid such an occurrence, Client waives any claim against, and agrees to defend, indemnify and save BVNA harmless from any claim or liability for injury or loss which may arise as a result of subsurface contamination caused by drilling, sampling, or monitoring well installation. Client also agrees to adequately compensate BVNA for any time spent and expenses incurred in defense of any such claim.
- 7. Sample Disposal:** Unless other arrangements are made, BVNA will dispose of all soil and rock samples remaining at the time of report completion. Further storage or transfer of samples can be arranged at Client's prior written request, subject to a reasonable charge by BVNA. Client acknowledges that contaminated drill cuttings, sample spoils, wash water, and other materials may be produced as a result of encountering hazardous materials at the site. In HSE One Off T&C's [Rev.(6) 8.19.2013]

such event, BVNA shall properly contain, label, and store such materials on-site, and Client shall be responsible for its proper transportation and disposal. BVNA may be able to arrange for the transportation and disposal of hazardous materials at Client's request.

**8. Construction Monitoring:** If BVNA is engaged by Client to provide a site representative for the purpose of monitoring specific portions of any construction work, as set forth in the proposal, then this Section 8 shall apply. If BVNA's engagement does not include such construction monitoring, then this Section shall be null and void. In connection with construction monitoring, BVNA will report observations and professional opinions to Client. BVNA shall report to Client any observed work which, in BVNA's opinion, does not conform to plans and specifications. BVNA shall have no authority to reject or terminate the work of any agent or contractor of Client. No action, statements, or communications of BVNA, or BVNA's site representative, can be construed as modifying any agreement between Client and others. BVNA's presence on the Project site in no way guarantees the completion or quality of the performance of the work of any party retained by Client to provide construction related services. Neither the professional activities of BVNA, nor the presence of BVNA or its employees, representatives, or subcontractors on the Project Site, shall be construed to impose upon BVNA any responsibility for methods of work performance, superintendence, sequencing of construction, or safety conditions at the Project site. Client acknowledges that Client or its general contractor is solely responsible for job site safety, and warrants and agrees that such responsibility shall be made evident in any Project owner's agreement with the general contractor. Client also agrees to make BVNA an additional insured under any general contractor's General Liability insurance policy. Prior to the commencement of the Work, Client shall provide BVNA with a certificate of insurance evidencing the required insurance. Such certificates shall be issued by an insurance carrier(s) acceptable to BVNA and shall be endorsed to include: (1) BVNA as additional insured; (2) thirty (30) days prior written notice of cancellation or material change in any of the coverages; and (3) a waiver of subrogation as to BVNA. Each policy of insurance required shall be written by an insurance company with a minimum rating by A.M. Bests & Company of A-VI. This insurance shall be primary to any insurance available to BVNA. In the event BVNA expressly assumes any health and safety responsibilities for hazardous materials or other items specified in this Agreement, the acceptance of such responsibility does not and shall not be deemed an acceptance of responsibility for any other health and safety requirements, such as, but not limited to, those relating to excavation, trenching, drilling or backfilling.

**9. Compensation:** Compensation to be paid to BVNA shall be in accordance with the Schedule of Fees set forth in the proposal. A charge of 7.85% of the monthly invoice representing charges for BVNA personnel will be billed to defray costs associated with office, computer and electronic communications.

**10. Method of Payment:** BVNA shall submit monthly billings to Client describing the work performed during the preceding month. Client shall pay BVNA no later than thirty (30) days after receipt of the monthly invoice by Client's staff. For proposals with a value of less than \$5,000, an invoice for the proposal value will be issued immediately upon acceptance of the proposal. This invoice will require a 50% payment prior to the start of work with the remaining balance due immediately upon completion of work by BVNA. If the invoice is not paid within such period, Client shall be liable to BVNA for a late charge accruing from the date of such invoice to the date of payment at the lower of eighteen (18) percent per annum or the maximum rate allowed by law. Further, if the invoice is not paid within such period, BVNA may, at any time, and without waiving any other rights or claims against Client and without thereby incurring any liability to Client, elect to terminate performance of services immediately following written notice from BVNA to Client. Notwithstanding any such termination of services, Client shall pay BVNA for all services rendered by BVNA up to the date of termination of services plus all interest, termination costs and expenses incurred by BVNA. Client shall reimburse BVNA for all costs and expenses of collection, including reasonable attorney's fees.

**11. Ownership of Documents:** All plans, studies, documents and other writings prepared by BVNA, its officers, employees and agents and subcontractors in the course of implementing this Agreement shall remain the property of BVNA. The Client acknowledges that all intellectual property rights related to the performance of the Agreement, including but not limited to the names, service marks, trademarks, inventions, logos and copyrights of BVNA and its affiliates, (collectively, the "Rights") are and shall remain the sole property of BVNA or its affiliates and shall not be used by the Client, except solely to the extent that the Client obtains the prior written approval of BVNA and then only in the manner prescribed by BVNA. If BVNA terminates the Agreement in accordance with the provisions of Article 34 below, any such license granted by BVNA to the Client shall automatically terminate.

**12. Use of Data or Services:** BVNA shall not be responsible for any loss, liability, damage, expense or cost arising from any use of BVNA's analyses, reports, certifications, advice or reliance upon BVNA's services, which is contrary to, or inconsistent with, or beyond the provisions and purposes set forth therein or included in these Terms and Conditions, or in the Companion Documents. Client understands and agrees that BVNA's analyses, reports, certifications and services shall be used solely by the Client, and only Client is allowed to rely on such work product. If a third party relies on the services, analyses, reports or certifications without BVNA's written permission, then Client agrees to defend and indemnify BVNA from any claims or actions that are brought as a result of such reliance.

**13. Independent Contractor:** It is understood that BVNA, in the performance of the work and services agreed to be performed, shall act as and be an independent contractor and shall not act as an agent or employee of the Client. BVNA shall obtain no rights to retirement benefits or other benefits which accrue to Client's employees, and BVNA hereby expressly waives any claim it may have to any such rights.

**14. Standard of Care:** BVNA REPRESENTS THAT THE SERVICES, FINDINGS, RECOMMENDATIONS AND/OR ADVICE PROVIDED TO CLIENT WILL BE PREPARED, PERFORMED, AND RENDERED IN ACCORDANCE WITH PROCEDURES, PROTOCOLS AND PRACTICES ORDINARILY EXERCISED BY PROFESSIONALS IN BVNA'S PROFESSION FOR USE IN SIMILAR ASSIGNMENTS, AND PREPARED UNDER SIMILAR CONDITIONS AT THE SAME TIME AND LOCALITY. CLIENT ACKNOWLEDGES AND AGREES THAT BVNA HAS MADE NO OTHER IMPLIED OR EXPRESSED REPRESENTATION, WARRANTY OR CONDITION WITH RESPECT TO THE SERVICES, FINDINGS, RECOMMENDATIONS OR ADVICE TO BE PROVIDED BY BVNA PURSUANT TO THIS AGREEMENT.

**15. Indemnity:** Subject to the Limitation of Liability included in this Agreement, BVNA shall indemnify and hold harmless Client from and against losses, liabilities, and reasonable costs and expenses (for property damage and bodily injury, including reasonable attorney's fees), to the extent directly and proximately arising from BVNA's negligent performance of services or breach of warranty under this Agreement. BVNA shall not be obligated to defend the Client until there is an actual finding of negligence or if the parties agree otherwise. Client shall defend, indemnify and hold harmless BVNA, its employees, directors, officers, and agents, from and against claims, losses, liabilities, and reasonable costs and expenses (including reasonable attorney's fees) that are: i) related to, or caused by the negligence or willful misconduct of Client, its employees, or agents; ii) related to this Agreement or the work to be performed by BVNA for which BVNA is not expressly responsible; or iii) the expressed responsibility of the Client under this Agreement.

16. **Limitation of Liability:** To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the total aggregate liability of BVNA, its affiliates, employees, officers, directors and agents (Collectively referred to in this paragraph as "BVNA") for all claims for negligent professional acts, errors or omissions arising out of this Agreement is limited to \$50,000 or the amount of the total fees hereunder, whichever is greater.

17. **Insurance:** BVNA, at BVNA's own cost and expense, shall procure and maintain, for the duration of the contract, the following insurance policies with insurers possessing a Best's rating of no less than A:VII:

- a. **Workers' Compensation Coverage:** BVNA shall maintain Workers' Compensation and Employer's Liability Insurance for its employees in accordance with the laws of the state where the services are being performed. Any notice of cancellation or non-renewal of all Workers' Compensation policies will be sent to the Client in accordance with the policy provisions.
- b. **General Liability Coverage:** BVNA shall maintain Commercial General Liability insurance in an amount not less than one million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage.
- c. **Automobile Liability Coverage:** BVNA shall maintain Automobile Liability insurance covering bodily injury and property damage for activities of BVNA employee arising out of or in connection with the work to be performed under this Agreement, including coverage for owned, hired and non-owned vehicles, in an amount not less than one million dollars (\$1,000,000) combined single limit for each occurrence.
- d. **Professional Liability Coverage:** BVNA shall maintain Professional Errors and Omissions Liability for protection against claims alleging negligent acts, errors or omissions which may arise from BVNA's services under this Agreement. The amount of this insurance shall not be less than one million dollars (\$1,000,000) on a claims-made annual aggregate basis.

BVNA shall name Client as additional insured and other parties that it deems appropriate to be additionally insured under BVNA's Commercial General Liability policy and Automobile Liability policy, if requested to do so by Client. The Client, on its own behalf and on the behalf of any others that are named as additionally insured at Client's request, agrees that providing such insurance or the additional insured endorsement shall in no way be construed as an assumption by BVNA of any liability for the negligence or willful misconduct or any wrongful behavior on the part of Client or others that are named additionally insured.

18. **Consequential and Punitive Damages:** Neither BVNA nor Client shall be liable under any circumstances for loss of profits, loss of product, consequential damages of any kind, indirect damages of any kind or special damages of any kind to the other party, or to any third party. No punitive or exemplary damages of any kind shall be recoverable against either party under any circumstances.

19. **Cause of Action:** If Client makes a claim against BVNA, for any alleged error, omission, or other act arising out of the performance of its professional services and to the extent the Client fails to prove such claim, then the Client shall pay all costs including attorney's fees incurred by BVNA in defending the claim. Any cause of action brought against BVNA shall be brought within one (1) year of the work or services performed under this Agreement.

20. **Compliance with Laws:** BVNA shall use the standard of care in its profession to comply with all applicable federal, state and local laws, codes, ordinance and regulations in effect as of the date services are provided.

21. **Resolution of Disputes:** All claims, disputes, controversies or matters in question arising out of, or relating to, this Agreement or any breach thereof, including but not limited to disputes arising out of alleged design defects, breaches of contract, errors, omissions, or acts of professional negligence, except those disputes which arise out of or are related to collection matters or fees alone under this Agreement, (collectively "Disputes") shall be submitted to mediation before and as a condition precedent to pursuing any other remedy. Upon written request by either party to this Agreement for mediation of any dispute, Client and BVNA shall select a neutral mediator by mutual agreement. Such selection shall be made within ten (10) calendar days of the date of receipt by the other party of the written request for mediation. In the event of failure to reach such agreement or in any instance when the selected mediator is unable or unwilling to serve and a replacement mediator cannot be agreed upon by Client and BVNA within ten (10) calendar days, a mediator shall be chosen as specified in the Mediation Rules of the American Arbitration Association then in effect, or any other appropriate rules upon which the parties may agree.

Should either party to this Agreement commence any legal action against the other party arising out of this Agreement, the prevailing party shall be entitled to recover its reasonable litigation expenses, including court costs, expert witness fees, discovery expenses, and attorney's fees.

22. **Governing Law:** This Agreement shall be governed by and construed in accordance with the laws of the state where the BVNA office originating the work or proposal is located.

23. **Releases:** All lien releases will be limited to payment issues; no additional terms and conditions may be added to a release of lien.

24. **Waiver of Jury Trial:** Each party waives its right to a jury trial in any court action arising between the parties, whether under this Agreement or otherwise related to the work being performed under this Agreement.

25. **Third Party Beneficiary:** It is expressly understood and agreed that the enforcement of these terms and conditions shall be reserved to the Client and BVNA. Nothing contained in the Agreement shall give or allow any claim or right of action whatsoever by any third person. It is the express intent of the Client and BVNA that any such person or entity, other than Client or BVNA, receiving services or benefits under this Agreement shall be deemed an incidental beneficiary.

26. **Written Notification:** Any notice, demand, request, consent, approval or communication that either party desires or is required to give to the other party shall be in writing and either served personally or sent prepaid, first class mail. Any such notice, demand, etc., shall be addressed to the other party at the address set forth in the proposal. Either party may change its address by notifying the other party of the change of address. Notice shall be deemed communicated within 48 hours from the time of mailing if mailed as provided in this section.

**27. Confidential Information:** Neither party shall disclose information identified as confidential to anyone except those individuals who need such information to perform the Services; nor should either party use such confidential information, except in connection with the Work, the performance of the Services or as authorized by the other party in writing. Regardless of the term of this Agreement, each party shall be bound by this obligation until such time as the confidential information shall become part of the public domain. Confidential information shall not include information which is either: (i) known to the public; (ii) was known to the receiving party prior to its disclosure; or (iii) received in good faith from a third party. If either party is required to produce information by valid subpoena or Court order, parties agree to first provide prompt notice to other party in order to allow the party to seek a protective order or other appropriate remedy. This shall not prevent either party from disclosing information to the extent reasonably necessary to substantiate a claim or defense in any adjudicatory proceeding. Client agrees that BVNA shall be permitted to use Client's name and logos in BVNA's marketing materials unless advised or prohibited against it by the Client in writing. The technical and pricing information contained in any proposal or other documents submitted to Client by BVNA is to be considered confidential and proprietary and shall not be released or disclosed to a third party without BVNA's written consent.

**28. Assignment:** Neither party may assign this Agreement or any right or obligation hereunder without the prior written consent of the other party, which shall not be unreasonably withheld or delayed; provided, however, that no consent shall be necessary in the event of an assignment to a successor entity resulting from a merger, acquisition or consolidation by either party or an assignment to an Affiliate of either party if such successor or Affiliate assumes all obligations under this Agreement. Any attempted assignment, which requires consent hereunder, shall be void and shall constitute a material breach of this Agreement if such consent is not obtained.

**29. Non-Solicitation / Hiring of Employees:**

(a) To promote an optimum working relationship, the Client agrees in good faith that for the term of this Agreement and one year after the completion or termination of the Agreement not to directly or indirectly employ or otherwise engage any current employee of BVNA or any former employee of BVNA who left the employ of BVNA within the six (6) months prior to and including the date of the execution of the Agreement. The loss of any such employee would involve considerable financial loss of an amount that could not be readily established by BVNA. Therefore, in the event that Client should breach this provision and without limiting any other remedy that may be available to BVNA, the Client shall pay to BVNA a sum equal to the employee's current annual salary plus twelve (12) additional months of the employee's current annual salary for training of a new employee as liquidated damages.

(b) BVNA's employees shall not be retained as expert witnesses except by separate written agreement. Client agrees to pay BVNA's legal expenses, administrative costs and fees pursuant to BVNA's then current fee schedule for BVNA to respond to any subpoena.

**30. Prevailing Wage:** This Agreement and any proposals hereunder specifically exclude compliance with any project labor agreement or other union or apprenticeship requirements. In addition, unless explicitly agreed to in the body of the proposal, this Agreement and any proposals hereunder specifically exclude compliance with any State or Federal prevailing wage law or associated requirements, including the Davis Bacon Act. Due to the professional nature of its services BVNA is generally exempt from the Davis Bacon Act and other prevailing wage schemes. It is agreed that no applicable prevailing wage classification or wage rate has been provided to BVNA, and that all wages and cost estimates contained herein are based solely upon standard, no-prevailing wage rates. Should it later be determined by the Client or any applicable agency that in fact prevailing wage applies, then it is agreed that the contract value of this agreement shall be equitably adjusted to account for such changed circumstance. These exclusions shall survive the completion of the project and shall be merged into any subsequently executed documents between the parties, regardless of the terms of such agreement. Client will reimburse, defend, indemnify and hold harmless BVNA from any liability resulting from a subsequent determination that prevailing wage regulations cover the Projects, including all costs, fines and reasonable attorney's fees.

**31. Waiver:** No failure on the part of either party to exercise any right or remedy hereunder shall operate as a waiver of any other right or remedy that party may have hereunder.

**32. Amendments:** This Agreement may be modified or amended only by a written document executed by both BVNA and Client.

**33. Entire Agreement:** This Agreement constitutes the complete and exclusive statement of Agreement between the Client and BVNA. All prior written and oral communications, including correspondence, drafts, memoranda, and representations, are superseded in total by this Agreement.

**34. Termination:** This Agreement may be terminated immediately for cause or by either party without cause upon fifteen (15) days written notice of termination. Upon termination, BVNA shall be entitled to compensation for services performed up to the effective date of termination.

**35. Interpretation of Agreement:** This Agreement shall be interpreted as though prepared by all parties and shall not be construed unfavorably against either party.

**36. Severability of Agreement:** If any provision or provisions of this Agreement shall be held to be invalid, illegal, unenforceable or in conflict with the laws of any jurisdiction, the validity, legality and enforceability of the remaining provisions shall not in any way be effected and shall remain in full force and effect.

Date: October 22, 2014

To: Mr. Donald A. Ashton  
Senior Geologist  
Bureau Veritas North America, Inc.  
2430 Camino Ramon, Suite 122  
San Ramon, California 94583

cc:

From: Teri Copeland, M.S., D.A.B.T.

*Subject: Screening-Level Risk Evaluation  
Real Estate Property Located at  
16500 and 16550 Ashland Avenue; 205 and 255 Año Avenue  
San Lorenzo, California*

At the request of Bureau Veritas North America, Inc. (BVNA), Copeland & Associates, Inc. (CAI) conducted a Screening-level Risk Evaluation (SRE) for the real estate property located at 16500 and 16550 Ashland Avenue and 205 and 255 Año Avenue in San Lorenzo, California (Site). The purpose of the SRE was to assess whether the presence of pesticide residues in soil at the site could pose a potential health threat to hypothetical onsite residents. The risk evaluation was based on soil analytical data collected at the Site by BVNA on October 3 of 2014.

The SRE was conducted by comparing the maximum detected soil chemical concentrations to the U.S. Environmental Protection Agency (U.S. EPA) Regional Screening Levels (RSLs) (U.S. EPA, 2014). According to the results of the SRE, maximum detected concentrations of Aldrin and Dieldrin exceed target levels considered acceptable for unrestricted, residential land use. Accordingly, it is recommended that the locations of RSL exceedances be identified and delineated to support further assessment and/or focused remedial activities. Then a detailed Human Health Risk Assessment (HHRA) should be conducted to (1) determine whether residual chemical concentrations represent a health threat future site occupants; (2) provide a basis for

determining residual chemical levels that are adequately protective of public health; and, (3) determine whether risk-control measures should be implemented to protect future site occupants. Specifically, the risk assessment should evaluate the potential for chemical residue to cause adverse effects on human health. The HHRA results can be used by the property owners and potential buyers when considering appropriate risk management options for the protection of human health (if any are needed).

### **Background**

The approximately 3.14-acre Site is currently developed with three residential dwellings, pavement and foundations from former structures and fallow planting beds for a former commercial plant nursery.

Environmental conditions at the Site have been investigated by BVNA. On August 28, and September 16, 2014, BVNA advanced 22 soil borings using direct-push drilling equipment operated by Environmental Control Associates, a California-licensed drilling firm, located in Aptos, California. The Site was subdivided into four quadrants, with four borings advanced per quadrant on August 28, 2014, to a depth of 4.0 feet below the ground surface (bgs) for the purpose of collecting soil samples; three of these were advanced to 5.0 feet bgs and completed as temporary soil vapor wells. One additional boring (SB-5) was advanced to 18 feet bgs to collect soil and groundwater samples. On September 16, 2014, BVNA again visited the site and advanced five additional soil borings (SB-6 through SB-10) to a total depth of 5.0 feet bgs at various locations on the Site to collect additional soil vapor samples.

On October 3, 2014, BVNA returned to the Site and collected 12 surficial soil samples (samples S-1 through S-12) using hand sampling equipment. Analytical results obtained from the October 3, 2013 sampling event (Attachment A) were provided to CAI by BVNA and are the basis for this SRE.

CAI assumes that methodologies for sampling of environmental media, sample laboratory analysis and reporting have been conducted in accordance with established U.S. EPA and

California Environmental Protection Agency standards and guidance documents. CAI further assumes soil analytical data provided by BVNA dutifully reflects soil environmental conditions at the Site and that the only anthropogenic chemicals detected in soil that could pose a health risk to future onsite residents are those chemicals reported to CAI by BVNA (Attachment A). Anthropogenic chemicals reportedly detected in soil at the Site and their maximum detected concentrations are presented in Table 1.

### **Screening Risk Evaluation**

The approach used for the analysis of the risks posed by the concentrations of the chemicals in soil is based on U.S. EPA (2014) and DTSC (2014a and 2014b) guidance for the evaluation of human health risks. Specifically, maximum soil chemical concentrations reported for the site were compared with the U.S. EPA Region 9 Regional Screening Levels (RSLs; U.S. EPA 2014). RSLs for carcinogens are chemical concentrations in soil associated with an estimated cancer risk of one-in-one million (1E-06). RSLs for non-carcinogens are chemical concentrations in soil associated with a hazard quotient (HQ) of 1.0. A soil concentration estimated to produce a HQ of 1.0 is the maximum soil concentration that is deemed to produce no adverse effects for the potentially exposed population. RSLs for carcinogenic and non-carcinogenic effects for the chemicals reportedly detected in soil at the site are presented in Table 2.

### *Carcinogenic Risk Estimates*

The chemical-specific RSL for carcinogenic effects is a chemical concentration associated with a cancer risk of 1E-06. The estimated cancer risks are directly proportional to soil chemical concentrations. Potential cancer risks associated with a given soil chemical concentration are estimated by obtaining the ratio of the site chemical concentration to the RSL and then multiplying the product by 1E-06 (U.S. EPA, 2014). Potential cancer risks estimated using RSLs for individual chemicals detected in soil at the Site are presented in Table 2. Total cancer risks estimated to result from cumulative exposures to all chemicals detected in soil are obtained by adding the estimated chemical-specific cancer risks. Based on maximum soil concentrations, the

estimated incremental cancer risk for chemicals detected soil at the site is 1E-04 (Table 2). The chemicals that had the largest contribution to the cancer risk are Aldrin and Dieldrin (Table 2).

The estimated incremental cancer risk was compared to the risk level considered acceptable by federal and state regulatory agencies. The target cancer risk level identified by the DTSC in the PEA Guidance Manual (DTSC, 2013) is one in one million (1E-06). The U.S. EPA has established acceptable incremental cancer risk levels to be within the risk range of one in 10,000 (1 E-04) and 1 E-06. Cal-EPA has defined a risk of 1 in 100,000 (1E-05) as the “no significant level” for carcinogens under California’s Safe Drinking Water and Toxic Enforcement Act (Proposition 65; CDHS, 1994). Further, most California air districts use the 1E-05 risk level as the notification trigger level under California’s AB2588 Toxic Hot Spots Program.

#### *Non-Carcinogenic Health Hazard Assessment*

The HQ for a given chemical is directly proportional to the soil chemical concentration. Therefore, HQs that can result from exposure to site soils can be estimated by obtaining the ratio of the soil chemical concentration and the RSL for non-cancer effects (U.S. EPA, 2014). The RSLs for non-cancer effects for the chemicals reported in soil are presented in Table 2. The HQ is the ratio of the exposure level to a soil chemical concentration deemed to pose no significant health risk (e.g., the RSL). If the soil chemical concentration at the site exceeds the RSL (i.e., if the HQ exceeds unity), there may be a potential for potential non-cancer effects. Estimated hazard quotients for individual chemicals detected in soil at the Site are presented in Table 2.

The potential additivity of non-cancer hazard due to exposure to multiple substances is quantified as a hazard index (HI), which is the sum of all possible chemical-specific HQs (DTSC 2013). For multiple chemical or mixture exposures, the total HI for the site is estimated by summing the HQs using the following simple additive equation (U.S. EPA, 1989):

$$\text{Total HI} = \sum \text{Chemical-Specific HQ}$$

The estimated HI was compared to an acceptable hazard level. Implicit in the HI calculations is the assumption of a threshold level of exposure below which no adverse effects are expected to



occur. For example, if the HI exceeds unity (because site-specific concentration exceeds the RSL), then the potential for non-cancer adverse effects may exist. In general, the greater the value above 1.0, the greater the potential hazard. In contrast, HIs of less than 1.0 indicate that no adverse health effects are expected to occur from exposure to chemicals at the site.

Table 2 shows the estimated HI for non-carcinogenic effects for all chemicals reportedly detected in soil at the site. A total HI of 1 or less indicates that there is no potential for adverse non-carcinogenic health effects. The estimated HI for the site is 1 (Table 2). The estimated HI is within levels considered acceptable for unrestricted land use.

### **Summary and Conclusions**

The SRE was conducted by comparing the maximum detected soil chemical concentrations to the U.S. EPA's RSLs. According to the results of the SRE, maximum detected concentrations of Aldrin and Dieldrin exceed levels considered acceptable for unrestricted, residential land use. It is recommended that locations of exceedances be identified and delineated to support further assessment and/or focused remedial activities. This may require additional soil sampling and analysis. Then a detailed HHRA should be conducted to (1) determine whether residual chemical concentrations represent a health threat future site occupants; (2) provide a basis for determining residual chemical levels that are adequately protective of public health; and, (3) determine whether risk-control measures should be implemented to protect future site occupants. The HHRA results can be used by the property owners and potential buyers when considering appropriate risk management options for the protection of human health (if any are needed).

It should be noted that RSLs have been calculated by the U.S. EPA to be conservative and protective of human health so as not to underestimate site risks. The overall result of using RSLs is to overestimate rather than underestimate the actual potential risk posed by the site. RSLs have been developed to screen sites to evaluate if further evaluation is needed, to prioritize areas of concern at large sites, and to calculate risks associated with multiple contaminants. The exposure pathways used to calculate RSLs for soil consider soil ingestion, dermal contact with soil, inhalation of volatiles, and inhalation of particulates. According to the U.S. EPA (2014),

RSLs are to be used for a single medium (e.g. soil, air, or water). The exposure pathway calculations for soil exposure assume that there is no paving and that site soil is fully exposed. RSLs do not consider impact to groundwater and exposure pathways related to groundwater or vapor intrusion.

Residential soil RSLs are considered to be highly protective because they assume that individuals will have direct contact with the soil through ingestion, dermal absorption, inhalation of particulates for 30 years at 350 days per year. The residential soil RSLs also assume that a child will be located on site for six years.

All conclusions and recommendations are based on reported soil chemical concentrations and the current land use of the property. The conclusions do not consider the potential for future contaminant concentration fluctuations as a result of possible contaminant migration.

#### **Attachments**

- Table 1. Chemicals Reportedly Detected in Soil and their Maximum Detected Concentrations
- Table 2. Estimated Cumulative Cancer Risks and Health Hazards, Screening Comparison to RSL Values
- Figure 1. Soil Sampling Locations Map (provided by Bureau Veritas North America, Inc.)

Attachment A. TestAmerica Soil Analytical Report.

#### **References**

- California Department of Health Services (CDHS), 1994. *Safe Drinking Water and Toxic Enforcement Act of 1986 - Title 22 CCR, Division 2, Part 2, Subdivision 1, Chapter 3* (Proposition 65). <http://www.oehha.org/prop65/law/P65law72003.html>
- California Department of Toxic Substances Control (DTSC). 2013. Preliminary Endangerment Assessment Guidance Manual (A guidance manual for evaluating hazardous substance release sites). State of California Environmental Protection Agency. Sacramento, California.

- California Department of Toxic Substances Control (DTSC). 2014a. Human Health Risk Assessment (HHRA) Note 4. Screening Level Human Health Risk Assessments. Office of Human and Ecological Risk Assessment (HERO). June 9.
- California Department of Toxic Substances Control (DTSC). 2014b. Human Health Risk Assessment (HHRA) Note 3. STSC Recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. Office of Human and Ecological Risk Assessment (HERO). July 14.
- U. S. Environmental Protection Agency (U.S. EPA), 1989. Risk Assessment Guidance for Superfund, Vol. I, Human Health Evaluation Manual (Part A). Office of Emergency and Remedial Response, December. <http://www.epa.gov/oswer/riskassessment/ragsa/index.htm>
- U.S. Environmental Protection Agency (U.S. EPA), 2014. Region 9. Regional Screening Levels. On-line Database: [www.epa.gov/region09/superfund/prg/index.html](http://www.epa.gov/region09/superfund/prg/index.html). October.

*This memorandum was prepared by:*

***Copeland & Associates, Inc.***



Teri Copeland, M.S., D.A.B.T.  
Principal Toxicologist

## **TABLES**

**Table 1**  
**Soil Sample Analytical Summary**  
**for Soil Samples Collected on October 3, 2014**  
**16500 and 16550 Ashland Avenue, San Lorenzo, California**

COPC	Sample ID where the Maximum Concentration was Detected	Maximum Detected Concentration (mg/kg)
Aldrin	S-2	0.12
Chlordane (alpha)	S-9	0.13
Chlordane (gamma)	S-9	0.11
Chlordane (technical)	S-9	0.53
DDD	S-2	0.03
DDE	S-6	0.04
DDT	S-6	0.28
Dieldrin	S-2	3.20
Endrin	S-2	0.04
Endrin Ketone	S-6	0.02
Lindane	S-9	0.01

Notes:  
mg/kg = Milligrams per kilogram

**Table 2**  
**Estimated Cumulative Cancer Risks and Health Hazards**  
**Screening Comparison to RSL Values**  
**16500 and 16550 Ashland Avenue, San Lorenzo, California**

COPC	Exposure Point Concentration (mg/kg)	Regional Screening Levels		Individual Risks / Hazards	
		Residential		Residential	
		Carcinogens (mg/kg)	Non-carcinogens (mg/kg)	Cancer Risk (unitless)	Hazard Quotient (unitless)
<i>Pesticides</i>					
Aldrin	0.12	3.1E-02	1.8E+00	4.E-06	7.E-02
Chlordane (alpha)	0.13	1.8E+00	3.5E+01	7.E-08	4.E-03
Chlordane (gamma)	0.11	1.8E+00	3.5E+01	6.E-08	3.E-03
Chlordane (technical)	0.53	1.8E+00	3.5E+01	3.E-07	2.E-02
DDD	0.03	2.2E+00	NA	1.E-08	NA
DDE	0.04	1.6E+00	NA	3.E-08	NA
DDT	0.28	1.9E+00	3.6E+01	1.E-07	8.E-03
Dieldrin	3.20	3.3E-02	3.1E+00	1.E-04	1.E+00
Endrin	0.04	NA	1.8E+01	NA	2.E-03
Endrin Ketone	0.02	NA	1.8E+01	NA	9.E-04
Lindane	0.01	5.6E-01	2.1E+01	2.E-08	5.E-04
<b>CUMULATIVE RISKS and HAZARDS</b>				<b>1.E-04</b>	<b>1.E+00</b>

Notes:

mg/kg = Milligrams per kilogram

**FIGURE**



FIGURE

1

SITE PLAN WITH BORING LOCATIONS

16500 & 16550 Ashland Avenue  
205 & 255 Ano Avenue  
San Lorenzo, Alameda County, California

Project No. 33114-014115.01



LEGEND

- - - - - Approximate Site Boundary
- Soil Boring
- Soil/Soil Vapor Boring
- Soil/Groundwater Boring
- Former UST

- S-1 ● Soil Sample Location for OCPs
- BV-1 ○ Soil Sample Location for ACM

1639 ft



# **ATTACHMENT A**

## **TestAmerica Soil Analytical Report**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

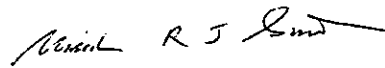
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-60371-1  
Client Project/Site: Kawahara

For:  
Bureau Veritas North America, Inc.  
Bishop Ranch 6  
2430 Camino Ramon Suite 122  
San Ramon, California 94583

Attn: Don Ashton



Authorized for release by:  
10/13/2014 4:15:42 PM

Micah Smith, Project Manager II  
(925)484-1919  
micah.smith@testamericainc.com



### LINKS

Review your project results through

**Total Access**

Have a Question?

**Ask The Expert**

Visit us at:

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

*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.*



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## Definitions/Glossary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

1

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
P	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

### 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

3

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# Case Narrative

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Job ID: 720-60371-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

**Job Narrative**  
**720-60371-1**

### Comments

No additional comments.

### Receipt

The samples were received on 10/3/2014 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 24.2° C.

### GC Semi VOA

Method(s) 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for alpha-chlordane for the following sample(s): S-2 (720-60371-6), S-4 (720-60371-8), S-5 (720-60371-9), S-6 (720-60371-10), S-7 (720-60371-11), S-8 (720-60371-12). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The following sample(s) required a dilution due to the nature of the sample matrix: S-2 (720-60371-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

## Client Sample ID: S-9

Lab Sample ID: 720-60371-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	570		9.8		ug/Kg	5		8081A	Total/NA
Endrin ketone	3.3		2.0		ug/Kg	1		8081A	Total/NA
gamma-BHC (Lindane)	10		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	530		39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	130		2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	110		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-10

Lab Sample ID: 720-60371-2

No Detections.

## Client Sample ID: S-11

Lab Sample ID: 720-60371-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	4.0		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-12

Lab Sample ID: 720-60371-4

No Detections.

## Client Sample ID: S-1

Lab Sample ID: 720-60371-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	150		1.9		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	250		39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	72		1.9		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	52		1.9		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-2

Lab Sample ID: 720-60371-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aldrin	120		2.0		ug/Kg	1		8081A	Total/NA
Dieldrin	3200		40		ug/Kg	20		8081A	Total/NA
Endrin	40		2.0		ug/Kg	1		8081A	Total/NA
Endrin ketone	11		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	56		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	37		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	25		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	250		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	41	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	57		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-3

Lab Sample ID: 720-60371-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	13		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.1		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-4

Lab Sample ID: 720-60371-8

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

## Client Sample ID: S-4 (Continued)

Lab Sample ID: 720-60371-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	39		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	12		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	11		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	74		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	12	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	13		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-5

Lab Sample ID: 720-60371-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	4.7		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	210		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	30	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	38		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-6

Lab Sample ID: 720-60371-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aldrin	2.7		2.0		ug/Kg	1		8081A	Total/NA
Dieldrin	560		4.0		ug/Kg	2		8081A	Total/NA
Endrin ketone	17		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	280		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	44		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	360		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	53	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	66		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-7

Lab Sample ID: 720-60371-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	42		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	40		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	19		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	260		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	47	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	55		2.0		ug/Kg	1		8081A	Total/NA

## Client Sample ID: S-8

Lab Sample ID: 720-60371-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	8.3	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	7.9		2.0		ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-9**

**Lab Sample ID: 720-60371-1**

Date Collected: 10/03/14 11:35

Matrix: Solid

Date Received: 10/03/14 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Dieldrin	570		9.8		ug/Kg		10/08/14 12:06	10/13/14 13:28	5
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Endrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Endrin ketone	3.3		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
4,4'-DDT	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
4,4'-DDE	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
gamma-BHC (Lindane)	10		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Toxaphene	ND		39		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
Chlordane (technical)	530		39		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
alpha-Chlordane	130		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
gamma-Chlordane	110		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	78		57 - 122				10/08/14 12:06	10/12/14 02:26	1
Tetrachloro-m-xylene	81		57 - 122				10/08/14 12:06	10/13/14 13:28	5
DCB Decachlorobiphenyl	114		21 - 136				10/08/14 12:06	10/12/14 02:26	1
DCB Decachlorobiphenyl	82		21 - 136				10/08/14 12:06	10/13/14 13:28	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10		%			10/08/14 15:23	1

TestAmerica Pleasanton



# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-10**

**Lab Sample ID: 720-60371-2**

Date Collected: 10/03/14 11:49

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Dieldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endrin ketone	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
4,4'-DDT	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
4,4'-DDE	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Toxaphene	ND		40		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Chlordane (technical)	ND		40		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
alpha-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
gamma-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		57 - 122				10/08/14 12:06	10/12/14 02:44	1
DCB Decachlorobiphenyl	89	p	21 - 136				10/08/14 12:06	10/12/14 02:44	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10		%			10/08/14 15:23	1

TestAmerica Pleasanton

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-11**

**Lab Sample ID: 720-60371-3**

Date Collected: 10/03/14 11:59

Matrix: Solid

Date Received: 10/03/14 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Dieldrin	4.0		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endrin ketone	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
4,4'-DDT	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
4,4'-DDE	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Toxaphene	ND		40		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Chlordane (technical)	ND		40		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
alpha-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
gamma-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		57 - 122				10/08/14 12:06	10/12/14 03:01	1
DCB Decachlorobiphenyl	127		21 - 136				10/08/14 12:06	10/12/14 03:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.10		%			10/08/14 15:23	1

TestAmerica Pleasanton

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-12**

**Lab Sample ID: 720-60371-4**

Date Collected: 10/03/14 12:15

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aldrin	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Dieldrin	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endrin aldehyde	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endrin	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endrin ketone	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Heptachlor	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Heptachlor epoxide	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
4,4'-DDT	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
4,4'-DDE	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
4,4'-DDD	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endosulfan I	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endosulfan II	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
alpha-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
beta-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
gamma-BHC (Lindane)	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
delta-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Endosulfan sulfate	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Methoxychlor	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Toxaphene	ND		39		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Chlordane (technical)	ND		39		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
alpha-Chlordane	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
gamma-Chlordane	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	82		57 - 122				10/08/14 12:06	10/12/14 03:19	1	
DCB Decachlorobiphenyl	138	X	21 - 136				10/08/14 12:06	10/12/14 03:19	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	12		0.10		%			10/08/14 15:23	1	

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-1**

**Lab Sample ID: 720-60371-5**

Date Collected: 10/03/14 12:26

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Dieldrin	150		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endrin aldehyde	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endrin	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endrin ketone	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Heptachlor	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Heptachlor epoxide	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
4,4'-DDT	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
4,4'-DDE	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
4,4'-DDD	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endosulfan I	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endosulfan II	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
alpha-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
beta-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
delta-BHC	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Endosulfan sulfate	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Methoxychlor	ND		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Toxaphene	ND		39		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Chlordane (technical)	250		39		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
alpha-Chlordane	72		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
gamma-Chlordane	52		1.9		ug/Kg		10/08/14 12:06	10/12/14 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		57 - 122				10/08/14 12:06	10/12/14 03:36	1
DCB Decachlorobiphenyl	120		21 - 136				10/08/14 12:06	10/12/14 03:36	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.10		%			10/08/14 15:23	1

TestAmerica Pleasanton

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-2**

**Lab Sample ID: 720-60371-6**

Date Collected: 10/03/14 12:36

Matrix: Solid

Date Received: 10/03/14 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	120		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Dieldrin	3200		40		ug/Kg		10/08/14 12:06	10/13/14 13:45	20
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Endrin	40		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Endrin ketone	11		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
4,4'-DDT	56		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
4,4'-DDE	37		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
4,4'-DDD	25		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Toxaphene	ND		40		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
Chlordane (technical)	250		40		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
alpha-Chlordane	41	p	2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1
gamma-Chlordane	57		2.0		ug/Kg		10/08/14 12:06	10/12/14 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		57 - 122	10/08/14 12:06	10/12/14 03:54	1
Tetrachloro-m-xylene	0	X D	57 - 122	10/08/14 12:06	10/13/14 13:45	20
DCB Decachlorobiphenyl	129		21 - 136	10/08/14 12:06	10/12/14 03:54	1
DCB Decachlorobiphenyl	0	X D	21 - 136	10/08/14 12:06	10/13/14 13:45	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			10/08/14 15:23	1

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-3**

**Lab Sample ID: 720-60371-7**

Date Collected: 10/03/14 12:50

Matrix: Solid

Date Received: 10/03/14 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Dieldrin	13		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endrin ketone	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
4,4'-DDT	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
4,4'-DDE	4.1		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Toxaphene	ND		40		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
Chlordane (technical)	ND		40		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
alpha-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
gamma-Chlordane	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	79		57 - 122				10/08/14 12:06	10/12/14 04:11	1
DCB Decachlorobiphenyl	114		21 - 136				10/08/14 12:06	10/12/14 04:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			10/08/14 15:23	1

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-4**

**Lab Sample ID: 720-60371-8**

Date Collected: 10/03/14 13:14

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Dieldrin	39		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endrin	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endrin ketone	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
4,4'-DDT	12		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
4,4'-DDE	11		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Toxaphene	ND		40		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Chlordane (technical)	74		40		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
alpha-Chlordane	12	p	2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
gamma-Chlordane	13		2.0		ug/Kg		10/08/14 12:06	10/12/14 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		57 - 122				10/08/14 12:06	10/12/14 04:29	1
DCB Decachlorobiphenyl	123		21 - 136				10/08/14 12:06	10/12/14 04:29	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10		%			10/08/14 15:23	1

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-5**

**Lab Sample ID: 720-60371-9**

Date Collected: 10/03/14 13:30

Matrix: Solid

Date Received: 10/03/14 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Dieldrin	4.7		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endrin aldehyde	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endrin ketone	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Heptachlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
4,4'-DDT	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
4,4'-DDE	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
4,4'-DDD	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endosulfan I	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endosulfan II	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
alpha-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
beta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
delta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Methoxychlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Toxaphene	ND		40		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
Chlordane (technical)	210		40		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
alpha-Chlordane	30	p	2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
gamma-Chlordane	38		2.0		ug/Kg		10/09/14 18:23	10/11/14 19:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	90		57 - 122				10/09/14 18:23	10/11/14 19:58	1
DCB Decachlorobiphenyl	143	X	21 - 136				10/09/14 18:23	10/11/14 19:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.10		%			10/08/14 15:23	1



# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-6**

**Lab Sample ID: 720-60371-10**

Date Collected: 10/03/14 13:45

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	2.7		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Dieldrin	560		4.0		ug/Kg		10/09/14 18:23	10/13/14 13:11	2
Endrin aldehyde	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Endrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Endrin ketone	17		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Heptachlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
4,4'-DDT	280		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
4,4'-DDE	44		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
4,4'-DDD	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Endosulfan I	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Endosulfan II	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
alpha-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
beta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
delta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Methoxychlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Toxaphene	ND		40		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Chlordane (technical)	360		40		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
alpha-Chlordane	53	p	2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
gamma-Chlordane	66		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		57 - 122				10/09/14 18:23	10/11/14 20:16	1
Tetrachloro-m-xylene	114		57 - 122				10/09/14 18:23	10/13/14 13:11	2
DCB Decachlorobiphenyl	132		21 - 136				10/09/14 18:23	10/11/14 20:16	1
DCB Decachlorobiphenyl	115		21 - 136				10/09/14 18:23	10/13/14 13:11	2

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10		%			10/08/14 15:23	1

TestAmerica Pleasanton

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-7**

**Lab Sample ID: 720-60371-11**

Date Collected: 10/03/14 13:57

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Dieldrin	42		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endrin aldehyde	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endrin ketone	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Heptachlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
4,4'-DDT	40		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
4,4'-DDE	19		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
4,4'-DDD	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endosulfan I	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endosulfan II	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
alpha-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
beta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
delta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Methoxychlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Toxaphene	ND		40		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Chlordane (technical)	260		40		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
alpha-Chlordane	47	p	2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
gamma-Chlordane	55		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		57 - 122				10/09/14 18:23	10/11/14 20:33	1
DCB Decachlorobiphenyl	139	X	21 - 136				10/09/14 18:23	10/11/14 20:33	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10		%			10/08/14 15:23	1

# Client Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-8**

**Lab Sample ID: 720-60371-12**

Date Collected: 10/03/14 14:08

Matrix: Solid

Date Received: 10/03/14 15:35

Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Dieldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endrin aldehyde	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endrin ketone	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Heptachlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
4,4'-DDT	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
4,4'-DDE	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
4,4'-DDD	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endosulfan I	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endosulfan II	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
alpha-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
beta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
delta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Methoxychlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Toxaphene	ND		40		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Chlordane (technical)	ND		40		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
alpha-Chlordane	8.3	p	2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
gamma-Chlordane	7.9		2.0		ug/Kg		10/09/14 18:23	10/11/14 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		57 - 122				10/09/14 18:23	10/11/14 20:51	1
DCB Decachlorobiphenyl	140	X	21 - 136				10/09/14 18:23	10/11/14 20:51	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.10		%			10/08/14 15:23	1

# QC Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

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

Lab Sample ID: MB 720-168410/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 168467							Prep Batch: 168410			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aldrin	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Dieldrin	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endrin aldehyde	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endrin	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endrin ketone	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Heptachlor	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Heptachlor epoxide	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
4,4'-DDT	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
4,4'-DDE	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
4,4'-DDD	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endosulfan I	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endosulfan II	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
alpha-BHC	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
beta-BHC	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
delta-BHC	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Endosulfan sulfate	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Methoxychlor	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Toxaphene	ND		40		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Chlordane (technical)	ND		40		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
alpha-Chlordane	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
gamma-Chlordane	ND		2.0		ug/Kg		10/08/14 12:04	10/09/14 04:12	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	96		57 - 122				10/08/14 12:04	10/09/14 04:12	1	
DCB Decachlorobiphenyl	93		21 - 136				10/08/14 12:04	10/09/14 04:12	1	

Lab Sample ID: LCS 720-168410/2-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 168467							Prep Batch: 168410			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Aldrin	16.3	13.5		ug/Kg		83	65 - 120			
Dieldrin	16.3	13.9		ug/Kg		85	72 - 120			
Endrin aldehyde	16.3	13.1		ug/Kg		81	68 - 120			
Endrin	16.3	14.3		ug/Kg		88	68 - 120			
Endrin ketone	16.3	14.5		ug/Kg		89	67 - 120			
Heptachlor	16.3	13.8		ug/Kg		84	69 - 120			
Heptachlor epoxide	16.3	14.4		ug/Kg		88	68 - 120			
4,4'-DDT	16.3	13.9		ug/Kg		86	63 - 127			
4,4'-DDE	16.3	14.0		ug/Kg		86	70 - 120			
4,4'-DDD	16.3	13.4		ug/Kg		82	69 - 120			
Endosulfan I	16.3	14.2		ug/Kg		87	62 - 120			
Endosulfan II	16.3	13.8		ug/Kg		85	65 - 120			
alpha-BHC	16.3	13.7		ug/Kg		84	62 - 120			
beta-BHC	16.3	15.1		ug/Kg		93	74 - 124			
gamma-BHC (Lindane)	16.3	13.9		ug/Kg		85	72 - 120			
delta-BHC	16.3	13.0		ug/Kg		80	43 - 125			

TestAmerica Pleasanton

# QC Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

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

Lab Sample ID: LCS 720-168410/2-A  
Matrix: Solid  
Analysis Batch: 168467

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 168410

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Endosulfan sulfate	16.3	13.2		ug/Kg		81	67 - 120
Methoxychlor	16.3	14.9		ug/Kg		92	71 - 132
alpha-Chlordane	16.3	14.2		ug/Kg		87	70 - 120
gamma-Chlordane	16.3	14.2		ug/Kg		87	68 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	93		57 - 122
DCB Decachlorobiphenyl	96		21 - 136

Lab Sample ID: MB 720-168546/1-A  
Matrix: Solid  
Analysis Batch: 168658

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 168546

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Dieldrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endrin aldehyde	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endrin	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endrin ketone	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Heptachlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Heptachlor epoxide	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
4,4'-DDT	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
4,4'-DDE	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
4,4'-DDD	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endosulfan I	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endosulfan II	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
alpha-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
beta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
delta-BHC	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Endosulfan sulfate	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Methoxychlor	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Toxaphene	ND		40		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
Chlordane (technical)	ND		40		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
alpha-Chlordane	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1
gamma-Chlordane	ND		2.0		ug/Kg		10/09/14 18:23	10/11/14 18:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	98		57 - 122	10/09/14 18:23	10/11/14 18:29	1
DCB Decachlorobiphenyl	113		21 - 136	10/09/14 18:23	10/11/14 18:29	1

Lab Sample ID: LCS 720-168546/2-A  
Matrix: Solid  
Analysis Batch: 168658

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 168546

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aldrin	16.5	14.9		ug/Kg		90	65 - 120
Dieldrin	16.5	14.6		ug/Kg		89	72 - 120

TestAmerica Pleasanton

# QC Sample Results

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

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

Lab Sample ID: LCS 720-168546/2-A

Matrix: Solid

Analysis Batch: 168658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Endrin aldehyde	16.5	15.8		ug/Kg		96	68 - 120		
Endrin	16.5	16.4		ug/Kg		99	68 - 120		
Endrin ketone	16.5	16.1		ug/Kg		98	67 - 120		
Heptachlor	16.5	15.3		ug/Kg		93	69 - 120		
Heptachlor epoxide	16.5	14.6		ug/Kg		89	68 - 120		
4,4'-DDT	16.5	16.6		ug/Kg		101	63 - 127		
4,4'-DDE	16.5	16.0		ug/Kg		97	70 - 120		
4,4'-DDD	16.5	16.4		ug/Kg		100	69 - 120		
Endosulfan I	16.5	14.8		ug/Kg		90	62 - 120		
Endosulfan II	16.5	15.7		ug/Kg		95	65 - 120		
alpha-BHC	16.5	15.0		ug/Kg		91	62 - 120		
beta-BHC	16.5	15.7		ug/Kg		95	74 - 124		
gamma-BHC (Lindane)	16.5	15.3		ug/Kg		93	72 - 120		
delta-BHC	16.5	13.2		ug/Kg		80	43 - 125		
Endosulfan sulfate	16.5	15.7		ug/Kg		95	67 - 120		
Methoxychlor	16.5	16.8		ug/Kg		102	71 - 132		
alpha-Chlordane	16.5	15.9		ug/Kg		97	70 - 120		
gamma-Chlordane	16.5	15.8		ug/Kg		96	68 - 120		
		<b>LCS</b>	<b>LCS</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>			
Tetrachloro-m-xylene		102				57 - 122			
DCB Decachlorobiphenyl		115				21 - 136			

TestAmerica Pleasanton

# QC Association Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

## GC Semi VOA

### Prep Batch: 168410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60371-1	S-9	Total/NA	Solid	3546	
720-60371-2	S-10	Total/NA	Solid	3546	
720-60371-3	S-11	Total/NA	Solid	3546	
720-60371-4	S-12	Total/NA	Solid	3546	
720-60371-5	S-1	Total/NA	Solid	3546	
720-60371-6	S-2	Total/NA	Solid	3546	
720-60371-7	S-3	Total/NA	Solid	3546	
720-60371-8	S-4	Total/NA	Solid	3546	
LCS 720-168410/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-168410/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 168467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-168410/2-A	Lab Control Sample	Total/NA	Solid	8081A	168410
MB 720-168410/1-A	Method Blank	Total/NA	Solid	8081A	168410

### Prep Batch: 168546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60371-9	S-5	Total/NA	Solid	3546	
720-60371-10	S-6	Total/NA	Solid	3546	
720-60371-11	S-7	Total/NA	Solid	3546	
720-60371-12	S-8	Total/NA	Solid	3546	
LCS 720-168546/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-168546/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 168658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60371-1	S-9	Total/NA	Solid	8081A	168410
720-60371-2	S-10	Total/NA	Solid	8081A	168410
720-60371-3	S-11	Total/NA	Solid	8081A	168410
720-60371-4	S-12	Total/NA	Solid	8081A	168410
720-60371-5	S-1	Total/NA	Solid	8081A	168410
720-60371-6	S-2	Total/NA	Solid	8081A	168410
720-60371-7	S-3	Total/NA	Solid	8081A	168410
720-60371-8	S-4	Total/NA	Solid	8081A	168410
720-60371-9	S-5	Total/NA	Solid	8081A	168546
720-60371-10	S-6	Total/NA	Solid	8081A	168546
720-60371-11	S-7	Total/NA	Solid	8081A	168546
720-60371-12	S-8	Total/NA	Solid	8081A	168546
LCS 720-168546/2-A	Lab Control Sample	Total/NA	Solid	8081A	168546
MB 720-168546/1-A	Method Blank	Total/NA	Solid	8081A	168546

### Analysis Batch: 168674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60371-1	S-9	Total/NA	Solid	8081A	168410
720-60371-6	S-2	Total/NA	Solid	8081A	168410
720-60371-10	S-6	Total/NA	Solid	8081A	168546

# QC Association Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

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## General Chemistry

Analysis Batch: 168435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60371-1	S-9	Total/NA	Solid	Moisture	
720-60371-2	S-10	Total/NA	Solid	Moisture	
720-60371-3	S-11	Total/NA	Solid	Moisture	
720-60371-4	S-12	Total/NA	Solid	Moisture	
720-60371-5	S-1	Total/NA	Solid	Moisture	
720-60371-6	S-2	Total/NA	Solid	Moisture	
720-60371-7	S-3	Total/NA	Solid	Moisture	
720-60371-8	S-4	Total/NA	Solid	Moisture	
720-60371-9	S-5	Total/NA	Solid	Moisture	
720-60371-10	S-6	Total/NA	Solid	Moisture	
720-60371-11	S-7	Total/NA	Solid	Moisture	
720-60371-12	S-8	Total/NA	Solid	Moisture	

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# Lab Chronicle

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-9**

Date Collected: 10/03/14 11:35

Date Received: 10/03/14 15:35

**Lab Sample ID: 720-60371-1**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		5	168674	10/13/14 13:28	MQL	TAL PLS
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 02:26	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-10**

Date Collected: 10/03/14 11:49

Date Received: 10/03/14 15:35

**Lab Sample ID: 720-60371-2**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 02:44	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-11**

Date Collected: 10/03/14 11:59

Date Received: 10/03/14 15:35

**Lab Sample ID: 720-60371-3**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 03:01	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-12**

Date Collected: 10/03/14 12:15

Date Received: 10/03/14 15:35

**Lab Sample ID: 720-60371-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 03:19	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-1**

Date Collected: 10/03/14 12:26

Date Received: 10/03/14 15:35

**Lab Sample ID: 720-60371-5**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 03:36	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

## Client Sample ID: S-2

Date Collected: 10/03/14 12:36

Date Received: 10/03/14 15:35

Lab Sample ID: 720-60371-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		20	168674	10/13/14 13:45	MQL	TAL PLS
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 03:54	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

## Client Sample ID: S-3

Date Collected: 10/03/14 12:50

Date Received: 10/03/14 15:35

Lab Sample ID: 720-60371-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 04:11	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

## Client Sample ID: S-4

Date Collected: 10/03/14 13:14

Date Received: 10/03/14 15:35

Lab Sample ID: 720-60371-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168410	10/08/14 12:06		TAL PLS
Total/NA	Analysis	8081A		1	168658	10/12/14 04:29	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

## Client Sample ID: S-5

Date Collected: 10/03/14 13:30

Date Received: 10/03/14 15:35

Lab Sample ID: 720-60371-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168546	10/09/14 18:23	DFR	TAL PLS
Total/NA	Analysis	8081A		1	168658	10/11/14 19:58	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

## Client Sample ID: S-6

Date Collected: 10/03/14 13:45

Date Received: 10/03/14 15:35

Lab Sample ID: 720-60371-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168546	10/09/14 18:23	DFR	TAL PLS
Total/NA	Analysis	8081A		2	168674	10/13/14 13:11	MQL	TAL PLS
Total/NA	Prep	3546			168546	10/09/14 18:23	DFR	TAL PLS
Total/NA	Analysis	8081A		1	168658	10/11/14 20:16	MQL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

**Client Sample ID: S-6**

**Lab Sample ID: 720-60371-10**

Date Collected: 10/03/14 13:45

Matrix: Solid

Date Received: 10/03/14 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-7**

**Lab Sample ID: 720-60371-11**

Date Collected: 10/03/14 13:57

Matrix: Solid

Date Received: 10/03/14 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168546	10/09/14 18:23	DFR	TAL PLS
Total/NA	Analysis	8081A		1	168658	10/11/14 20:33	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Client Sample ID: S-8**

**Lab Sample ID: 720-60371-12**

Date Collected: 10/03/14 14:08

Matrix: Solid

Date Received: 10/03/14 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			168546	10/09/14 18:23	DFR	TAL PLS
Total/NA	Analysis	8081A		1	168658	10/11/14 20:51	MQL	TAL PLS
Total/NA	Analysis	Moisture		1	168435	10/08/14 15:23	MJK	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture



# Method Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS

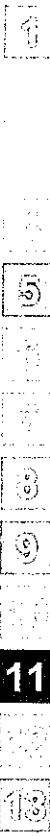
**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

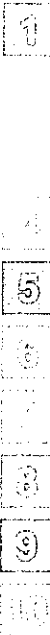


# Sample Summary

Client: Bureau Veritas North America, Inc.  
Project/Site: Kawahara

TestAmerica Job ID: 720-60371-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-60371-1	S-9	Solid	10/03/14 11:35	10/03/14 15:35
720-60371-2	S-10	Solid	10/03/14 11:49	10/03/14 15:35
720-60371-3	S-11	Solid	10/03/14 11:59	10/03/14 15:35
720-60371-4	S-12	Solid	10/03/14 12:15	10/03/14 15:35
720-60371-5	S-1	Solid	10/03/14 12:26	10/03/14 15:35
720-60371-6	S-2	Solid	10/03/14 12:36	10/03/14 15:35
720-60371-7	S-3	Solid	10/03/14 12:50	10/03/14 15:35
720-60371-8	S-4	Solid	10/03/14 13:14	10/03/14 15:35
720-60371-9	S-5	Solid	10/03/14 13:30	10/03/14 15:35
720-60371-10	S-6	Solid	10/03/14 13:45	10/03/14 15:35
720-60371-11	S-7	Solid	10/03/14 13:57	10/03/14 15:35
720-60371-12	S-8	Solid	10/03/14 14:08	10/03/14 15:35



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CHAIN OF CUSTODY

1220-60371



BUREAU VERITAS

Lab: TML  
TAT: Standard

156712  
Page 1 of 2

10/13/2014

Report results to:

Don Ashton  
Bureau Veritas  
2430 Camino Ramon, Suite 122  
San Ramon, California 94583  
(925) 426-2600, Drcf: (925) 426-2679  
(925) 426-0106  
Don.Ashton@us.bureauveritas.com

Project Information  
Project No. 33114 - CIV 115101  
Name KAWAHA  
Location SAN JOSE

Special instructions and/or specific regulatory requirements:

EDD Report for Geotracker: Yes  No

10-3-14

Sample Identification	Date Sampled	Time Sampled	Matrix Media	No. of Conts	Analyses Requested	Sample Condition/Comments	Preservative
5-9	10-3-14	11:35	soil	1	X OCPs method 8001A X % moisture		ICE
5-10	10-3-14	11:49					
5-11		11:59					
5-12		12:15					
5-1		12:26					
5-2		12:36					
5-3		12:50					
5-4		13:14					
5-5		13:30					
5-6		13:45					



720-60371 Chain of Custody

Yes No

Collected by: [Signature] Date/Time 10-3-14 15:35  
Relinquished by: [Signature] Date/Time  
Method of Shipment:

Collector's Signature: [Signature] Date/Time 10-3-14 15:35  
Received by: [Signature] Date/Time  
Sample Condition on Rcpt: 24-28





## Login Sample Receipt Checklist

Client: Bureau Veritas North America, Inc.

Job Number: 720-60371-1

Login Number: 60371

List Number: 1

Creator: Gonzales, Justinn

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ( $1/4''$ ).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

