FOCUSED REMEDIAL INVESTIGATION Former Agricultural Properties 7109 - 7601 48th Street E, Fife, WA Map 042017-3, Parcels: 047, 048, 008, 024, 025, 018, 039, 040, 037, 038, 029, and 031 Cleanup Site ID 15535; Facility Site ID 36429 Report Prepared For: Doug Pennington, Environmental Manager Papé Properties, Inc. 355 Goodpasture Island Road Eugene, OR 97401

Report Prepared By:



BB&A ENVIRONMENTAL 25195 SW Parkway Avenue, Suite 207 Wilsonville, OR 97070 (503) 570-9484

May 22, 2023

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1.0 INTRODUCTION

Introduction and Purpose

This report documents the results of a Focused Remedial Investigation, completed by BB&A Environmental (BB&A) at the *subject property*, identified as the former residential and agricultural properties located at 7109 to 7601 (north side of) 48th Street East, in Fife, Washington (herein referred to as the *subject property*). Pierce County identifies the *subject property* as approximately 18 acres in size and composed of the following parcels within map 042017-3: 047, 048, 008, 024, 025, 018, 039, 040, 037, 038, 029, and 031.

The purpose of the Focused Remedial Investigation was to determine the magnitude and extent of residual dieldrin contamination previously identified in soil at the *subject property*. BB&A Environmental (BB&A) was retained by Papé Properties, Inc. to perform the Focused Remedial Investigation prior to light-industrial redevelopment of the *subject property* with Papé Machinery and Papé Material Handling facilities.

2.0 SITE DESCRIPTION

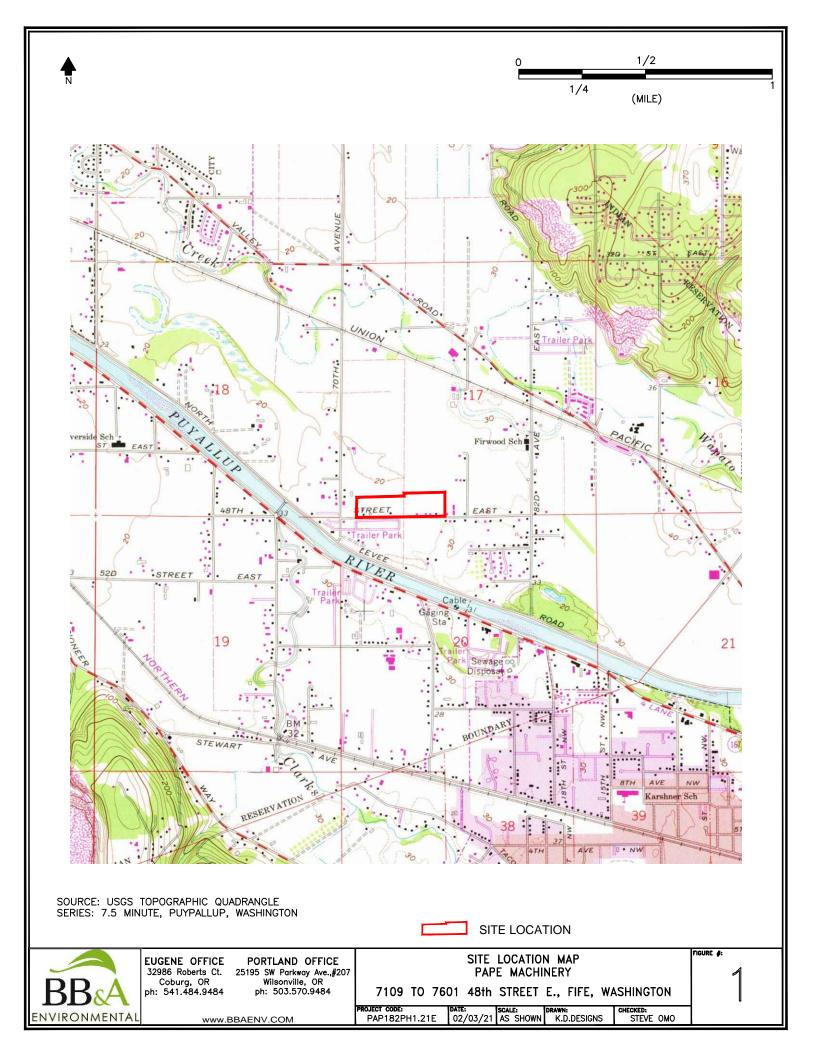
2.1 Location and Legal Description

The *subject property* is an approximately 18-acre, former agricultural- and residential-use property located at 7109 to 7601 (north side of) 48th Street East, in Fife, Washington. Pierce County identifies the *subject property* as approximately 18 acres in size and composed of the following parcels within map 042017-3: 047, 048, 008, 024, 025, 018, 039, 040, 037, 038, 029, and 031. The geodesic location of the *subject property* is described as the southwest quarter of Section 17, Township 20 North, Range 4 East. The general location of the *subject property* is depicted on the Site Vicinity map included as **Figure 1**. A site location map and aerial photograph are provided on the following pages as **Figures 1** and **2**. A Site Plan is provided as **Figure 3**.

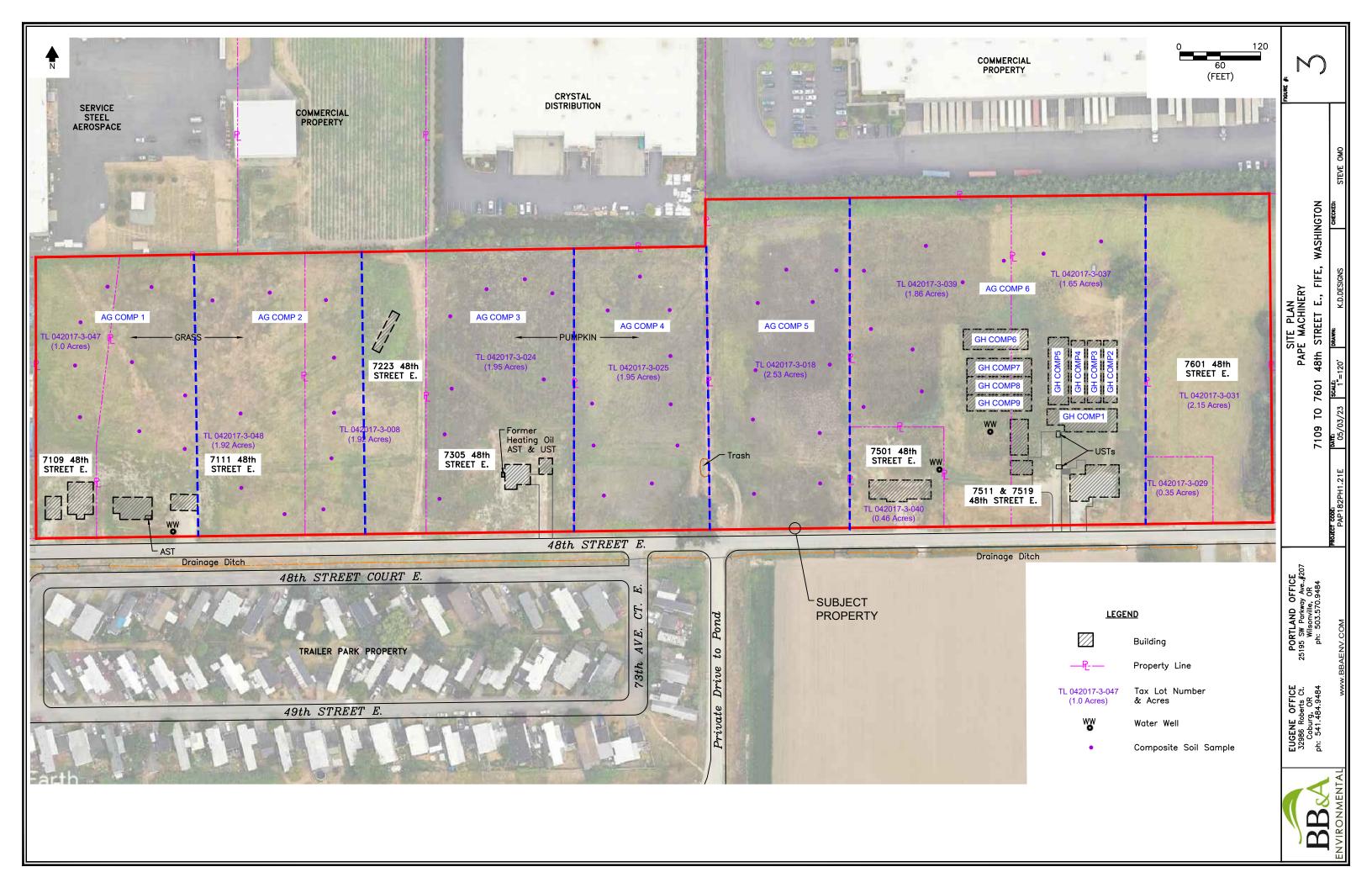
2.2 Subject Property Description

The *subject property* is an approximately 18-acre former agricultural and residential property, composed of several tax lots, located in southeast Fife, Washington. At the time of the site reconnaissance, the *subject property* was noted to be completely bare ground and absent of any former residential structures. No evidence of current agricultural operations was noted.

Adjacent and nearby properties to the north and west are primarily of industrial use, and adjacent and nearby properties to the south and east are predominantly of residential and agricultural use. It should be noted that Papé Properties also owns the three (3) industrial and residential properties (5.65-acres) to the east, and has plans to redevelop these properties as well.







2.3 Current Zoning and Surrounding Land Use

Zoning: The *subject property* is located within the Fife city limits, and is zoned *Community Commercial*. To the north, the adjacent properties are zoned *Industrial*. To the west, east and south adjacent and nearby properties to the south are zoned *Community Commercial*. To the southeast are properties zoned *Single-Family Residential* and *Medium Density Residential*.

Land Use: The adjacent properties to the north and west appear to be of industrial use, although a small agricultural property occupies a parcel to the north. To the south, is a mobile home park that is zoned *Community Commercial*. To the east are three (3) properties (5.65-acres) owned by Papé Properties, that are of industrial and residential use. Papé Properties has plans to redevelop these properties as for industrial use.

3.0 HYDROGEOLOGIC SETTING

3.1 Physical Setting

The *subject property* is relatively level, with a very slight topographical gradient dipping to the north from a topographical high of 27 to 28 feet above mean sea level (MSL) along 48th Street, to a localized low of approximately 22 to 23 feet above MSL at the northeastern portion of the property. Local and regional topography dips gently to the west-northwest (see **Figure 1**).

3.2 Local and Regional Geologic and Hydrogeologic Conditions

According to the US Geological Survey (USGS) *Geologic Map of the Tacoma 1:100,000-Scale Quadrangle, Washington*, the *subject property* and surrounding area are underlain by alluvial (Qa) deposits of loose, stratified fluvial silt, sand, and gravel associated with the Puyallup River valley, within which, the *subject property* is located. More specifically, based on soils encountered in onsite borings, native soils encountered beneath the subject property from the surface to a depth of 10 feet below land surface (BLS) include clayey silt and silt with fine-grained sand. Groundwater was found to occur at a depths ranging between six (6) to 10.5 feet BLS, depending on the season.

Local groundwater flow beneath the *subject property* (and nearby areas) is assumed to flow generally west-northwest with decreasing topography towards and parallel to the flow of the Puyallup River.

3.3 Local and Regional Aquifers and Beneficial Groundwater Use

To confirm local stratigraphy and depth to useable aquifers, a water well query was conducted of the Washington Ecology Water Resources database. Using an approximate three-quarter (0.75) mile radius from the *subject property*, the water well query identified 57 well reports. Of these 57 well reports, eight well reports were for seven (7) domestic water wells (two [2] well reports were associated with the same water well, including initial installation, and later for deepening the water well). The water well query results for the water well reports for the nine (9) water wells are provided in **Appendix A**. The screened intervals for each of the seven (7) water wells are identified as follows:

Well ID	Screened Interval	Distance from Subject Property
301365	168' - 175'	0.5 miles east of the subject property
50066	288' - 298'	0.25 miles south, beyond the Puyallup River
51348	268' - 273'	0.8 miles west-northwest of the subject property
52084	287' - 297'	Location Unknown, could be within 500 feet
313681	85' - 90'	0.62 miles southeast of the subject property
341330	105' - 110'	0.5 miles east of the subject property
1595809	107' - 117'	0.25 miles east of the subject property

The City of Fife Public Works Department confirmed that the adjacent trailer park property to the south of the *subject property* received water from the municipal water-supply system.

4.0 HISTORICAL RELEASES AND INVESTIGATIONS

4.1 Historical Releases

Based on interviews with the former property owners of the *subject property*, no on-site mixing or bulk storage of dieldrin (or pesticides) was ever conducted at the *subject property*. In addition, according to the former property owners, former use of pesticides was conducted in accordance with manufacturers directions and recommendations, and applied as standard operating practices.

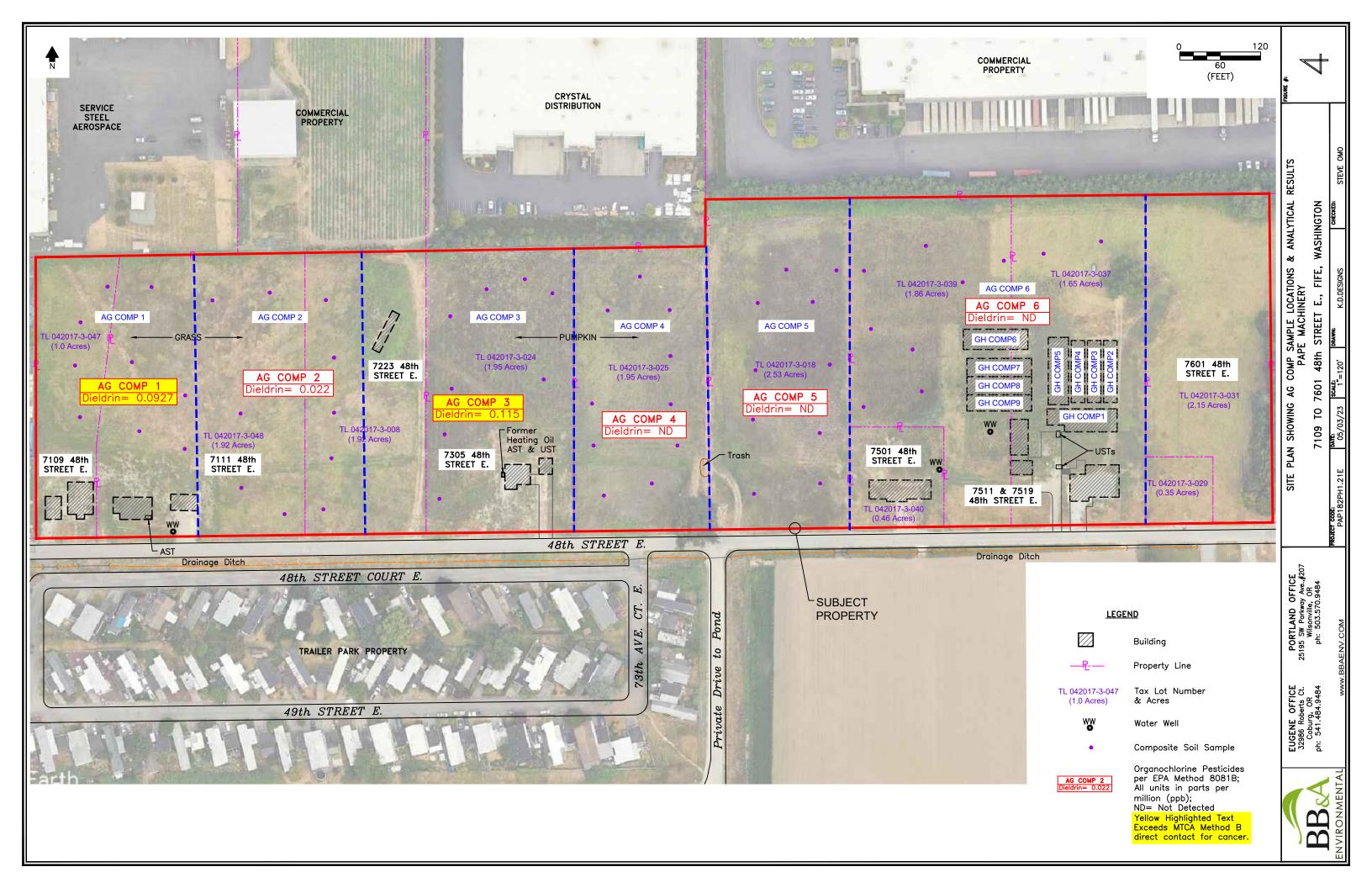
4.2 February 2021 Focused Phase II ESA

As part of the Focused Phase II ESA (February 2021), BB&A conducted focused surface soil sampling at the agricultural parcels of the *subject property*, including the former greenhouses on tax parcels 042017-3-037 and 042017-3-039, on the eastern portion of the *subject property*. The purpose of the sampling event was to confirm or deny the presence (and magnitude if present) of herbicides and pesticides in shallow soil in the areas of agricultural use.

4.3 Soil Sampling Methodology

As part of the 2021 focused investigation, composite soil samples were collected from surface soils immediately beneath the tables within the greenhouses, as well as from the agricultural fields composing the *subject property*. The following sample protocols were performed for each composite soil sample:

- Greenhouse Samples: Within each greenhouse were raised tables for holding various potted plants. When watered or treated using herbicides or pesticides, excess water runoff from these tables dripped on the soil beneath each table. Within each greenhouse, 10 random grab samples were collected throughout the greenhouse using clean nitrile gloves. The nitrile gloves were changed between samples to prevent cross-contamination. The grab samples were combined and thoroughly mixed within a one-gallon plastic ziploc bag, from which two (2), four (4) ounce soil jars were filled to capacity.
- **Agricultural Fields:** The agricultural fields for parcels (west to east) 047, 048, 008, 024, 025, 018, 039, and 037 were divided into six (6) sampling units, approximately two (2) acres in size. The sampling units are shown on **Figure 4**, as are the approximate location of each grab sample. Within each sampling unit, 10 random grab samples were collected using a shovel and clean nitrile gloves. At each random grab sample location, a one (1) foot by one (1) foot square plug of soil, approximately eight (8) inches deep, was removed using a shovel. To prevent cross-contamination, a grab sample was collected below the root zone at approximately three (3) to eight (8) inches below the surface from the center of the plug that had not come in contact with the shovel. The grab samples were combined and thoroughly mixed within a one-gallon plastic ziploc bag, from which two (2), four (4) ounce soil jars were filled to capacity.



Nitrile gloves were changed after composite sampling of soil in each sample unit to prevent additional cross-contamination. Each clean four (4) ounce glass jar was filled to capacity (i.e., no headspace), and sealed with threaded, teflon-lined caps. The sample jars were uniquely labeled, logged on a chain-of-custody document, and placed on ice in an insulated portable cooler for immediate delivery to Apex Laboratories in Tigard, Oregon.

4.4 Greenhouse Soil Sample Results

The February 2021 composite soil samples were submitted for analysis of Organochlorine Pesticides per EPA Method 8081B, and Herbicides per EPA Method 8151A. The analytical results are summarized below in **Table 1**. Laboratory analysis only detected the herbicide 2,4-D above method reporting limits in four (4) of the greenhouse soil samples. Further, pesticides were not detected in the composite soil samples from Greenhouses 4, 5, 6, and 7 (see **Figure 4**). However in all other composite samples, multiple pesticides were detected, including: Aldrin, beta-BHC, Lindane, cis-Chlordane, trans-Chlordane, 4,4'-DDD, 4,4'-DDE, 4.4'-DDT, Dieldrin, Endosulfan II, Endosulfan Sulfate, Endrin Ketone, and Heptachlor Epoxide.

To evaluate the analytical results, the detected pesticide concentrations were compared to MTCA cleanup levels. MTCA Method A cleanup levels were not available for any of the herbicides or pesticides. Instead, the detected concentrations were compared to MTCA Method B cleanup levels for unrestricted land use. MTCA Method B includes cleanup concentrations for carcinogenic and non-carcinogenic compounds. Dieldrin was found to exceed the carcinogenic MTCA Method B cleanup level of 0.63 milligrams per kilogram (mg/kg), or parts per million (ppm) in two (2) of the composite soil samples: AG Comp 1 at 0.0927 ppm at the far west end of the property, and AG Comp 3 at 0.115 ppm tax lot 024. No soil samples were found to contain dieldrin above the MTCA Method C cleanup level of 8.2 ppm for industrial use properties. It is important to note that Papé Properties has plans to redevelop the *subject property* (i.e., all tax lots) as industrial properties, including a Papé Machinery facility for sales, service and repair of large earth moving equipment, such as excavators and tractors, and Papé Material Handling Facility for sales, service, and rental of forklifts, and high-lift machinery.

4.5 Water Well Sampling

As part of the Focused Phase II ESA, the water well at 7519 48th Street E was sampled. Prior to sampling, approximately 30 gallons of water was purged from a spigot immediately outside the water well pump house at this address. Upon purging, the water samples were collected directly from the spigot under low-flow conditions. The water sample from this water well was analyzed for dissolved arsenic, nitrates, organochlorine pesticides, and herbicides. None of the potential contaminants analyzed were detected above method-reporting limits.

Table 1: Greenhouse / Agricultural Soil Sampling Analytical Results – February 2021

Multiple Parcels, 7109 - 7519 48th Street E, Fife, Washington

All concentrations in milligrams per kilogram (mg/kg), or parts per million (ppm).

ND (>0.02): Indicates contaminant was not detected above method-reporting limit shown in parenthesis.

Yellow highlighted values indicate concentration exceeding MTCA CULs.

**Except for Arsenic, MTCA A Cleanup Levels are not available. Instead, MTCA Method B Non-Cancer (B-NC) and Method B Cancer (B-C) Cleanup Levels are provided. For Dieldrin, the MTCA C Cleanup Level is also provided.

Contaminants-of-				Greenhous	se Composite	Sample ID				Agricultural Parcel Composite Sample ID			MTCA Method B			
Potential-Concern	GH Comp1	GH Comp2	GH Comp3	GH Comp4	GH Comp5	GH Comp6	GH Comp7	GH Comp8	GH Comp9	AG Comp1	AG Comp2	AG Comp3	AG Comp4	AG Comp5	AG Comp6	Cleanup Levels**
Organochlorine Pesticides (EPA Method 8081B)																
Aldrin	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00894	ND (<0.002)	ND (<0.002)	0.0588 ^{B-C}				
beta-BHC	ND (<0.002)	ND (<0.002)	0.00295	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00917	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.556 ^{B-C}
gamma-BHC (Lindane)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00477	0.0235	ND (<0.002)	ND (<0.002)	0.909 ^{B-C}				
cis-Chlordane	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0255	0.00347	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	2.86 ^{B-C}				
trans-Chlordane	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0122	ND (<0.002)	0.00883	0.0222	ND (<0.002)	ND (<0.002)	2.86 ^{B-C}				
4,4'-DDD	0.00361	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00757	0.00702	0.0219	0.0232	0.0294	0.0153	ND (<0.002)	ND (<0.002)	4.17 ^{B-C}
4,4'-DDE	0.00256	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00597	0.00583	0.00342	0.00889	0.0192	0.00743	0.0123	0.00768	2.94 ^{B-C}
4,4'-DDT	0.00365	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0122	0.0129	0.00839	0.0179	0.0429	0.0264	0.0321	0.00871	2.94 ^{B-C}
Dieldrin	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0927	0.022	<mark>0.115</mark>	ND (<0.002)	ND (<0.002)	ND (<0.002)	<mark>0.063^{B-C} / 8.2^C</mark>				
Endosulfan II	0.00773	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	480 ^{B-NC}
Endosulfan Sulfate	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.00743	0.0274	ND (<0.002)	ND (<0.002)	480 ^{B-NC}				
Endrin Ketone	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0145	ND (<0.002)	ND (<0.002)	24 ^{B-NC}				
Heptachlor epoxide	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.0214	0.0431	ND (<0.002)	ND (<0.002)	0.11 ^{B-C}				
All other Pesticides	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	Various				
Herbicides (EPA Metho	od 8151)		•				•				•			•		
2,4,5-T	ND (<0.013)	ND (<0.012)	ND (<0.015)	ND (<0.012)	ND (<0.012)	ND (<0.011)	ND (<0.012)	ND (<0.014)	ND (<0.013)	ND (<0.013)	ND (<0.012)	ND (<0.012)	ND (<0.013)	ND (<0.013)	ND (<0.013)	800 ^{B-NC}
2,4,5-TP (Silvex)	ND (<0.013)	ND (<0.012)	ND (<0.015)	ND (<0.012)	ND (<0.012)	ND (<0.011)	ND (<0.012)	ND (<0.014)	ND (<0.013)	ND (<0.013)	ND (<0.012)	ND (<0.012)	ND (<0.013)	ND (<0.013)	ND (<0.013)	800 ^{B-NC}
2,4-D	ND (<0.130)	ND (<0.120)	ND (<0.150)	ND (<0.120)	0.092J	0.29	0.99	ND (<0.140)	0.59	ND (<0.130)	ND (<0.120)	ND (<0.120)	ND (<0.130)	ND (<0.130)	ND (<0.130)	800 ^{B-NC}
2,4-DB	ND (<0.130)	ND (<0.120)	ND (<0.150)	ND (<0.120)	ND (<0.120)	ND (<0.110)	ND (<0.120)	ND (<0.140)	ND (<0.130)	ND (<0.130)	ND (<0.120)	ND (<0.120)	ND (<0.130)	ND (<0.130)	ND (<0.130)	800 ^{B-NC}
Dalapon	ND (<0.330)	ND (<0.290)	ND (<0.370)	ND (<0.310)	ND (<0.310)	ND (<0.280)	ND (<0.290)	ND (<0.340)	ND (<0.320)	ND (<0.320)	ND (<0.310)	ND (<0.310)	ND (<0.320)	ND (<0.320)	ND (<0.320)	2400 ^{B-NC}
Dicamba	ND (<0.013)	ND (<0.012)	ND (<0.015)	ND (<0.012)	ND (<0.012)	ND (<0.011)	ND (<0.012)	ND (<0.014)	ND (<0.013)	ND (<0.013)	ND (<0.012)	ND (<0.012)	ND (<0.013)	ND (<0.013)	ND (<0.013)	2400 ^{B-NC}
Dichlorprop	ND (<0.130)	ND (<0.120)	ND (<0.150)	ND (<0.120)	ND (<0.120)	ND (<0.110)	ND (<0.120)	ND (<0.140)	ND (<0.130)	ND (<0.130)	ND (<0.120)	ND (<0.120)	ND (<0.130)	ND (<0.130)	ND (<0.130)	800 ^{B-NC}
Dinoseb	ND (<0.130)	ND (<0.120)	ND (<0.150)	ND (<0.120)	ND (<0.120)	ND (<0.110)	ND (<0.120)	ND (<0.140)	ND (<0.130)	ND (<0.130)	ND (<0.120)	ND (<0.120)	ND (<0.130)	ND (<0.130)	ND (<0.130)	80 ^{B-NC}
MCPA	ND (<26)	ND (<23)	ND (<29)	ND (<25)	ND (<25)	ND (<22)	ND (<23)	ND (<27)	ND (<26)	ND (<26)	ND (<25)	ND (<25)	ND (<26)	ND (<26)	ND (<25)	40 ^{B-NC}
MCPP	ND (<13)	ND (<12)	ND (<15)	ND (<12)	ND (<12)	ND (<11)	ND (<12)	ND (<14)	ND (<13)	ND (<13)	ND (<12)	ND (<12)	ND (<13)	ND (<13)	ND (<13)	80 ^{B-NC}
Arsenic	6.44	8.86	10.2	8.14	5.06	2.80	3.71	5.84	4.97	3.32	3.95	4.91	5.43	4.51	4.46	20 ^A

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5.0 FOCUSED REMEDIAL INVESTIGATION

5.1 Standards and Purpose

The results of the February 2021 Focused Phase II ESA identified low-level concentrations of pesticides in surface soil samples (upper six [6] inches) from former agricultural use tax lots on the north side of 48th Street East (7109 to 7519 48th Street E), in Fife, Washington. Of all the pesticides detected, Dieldrin was identified in surface soils from two (2) tax lots at concentrations exceeding MTCA Method B (Cancer) Cleanup Levels. The detected dieldrin concentrations did not exceed the MTCA Method C cleanup level for industrial use land (see **Table 1**). No other pesticides were detected at concentrations exceeding MTCA Method B Cleanup Levels.

Based on the results of the 2021 Focused Phase II ESA, on March 16, 2023, BB&A conducted a Focused Remedial Investigation with the purpose of defining the magnitude and extent of dieldrin in soil at the *subject property*. More specifically, the former Composite 1 (COMP 1) and Composite 3 (COMP 3) sample units (shown on **Figure 4**), where dieldrin exceeded MTCA Method B (Cancer) Cleanup Levels, were subdivided and resampled.

5.2 Soil Sampling Methodology

The area identified as COMP 1, on the west portion of the *subject property* (composed of portions of tax lots 042017-3-047 and 042017-3-048), was subdivided into six (6) approximately equal subunits. The area identified as COMP 3, identified as tax lot 042017-3-024, was subdivided into five (5) approximately equal sub-units. Within each sub-unit, 10 random grab samples were collected using a shovel and clean nitrile gloves. At each random grab sample location, a one (1) foot by one (1) foot square plug of soil, approximately eight (8) inches deep, was removed using a shovel. To prevent cross-contamination, a grab sample was collected just below the root zone at approximately two (2) to eight (8) inches below land surface, from the center of the plug that had not come in contact with the shovel. The 10 sub-unit grab samples were combined and thoroughly mixed within a one-gallon plastic ziploc bag, from which eight (8) ounce soil jars were filled to capacity. Clean nitrile gloves were used during collection of soil samples to prevent cross-contamination.

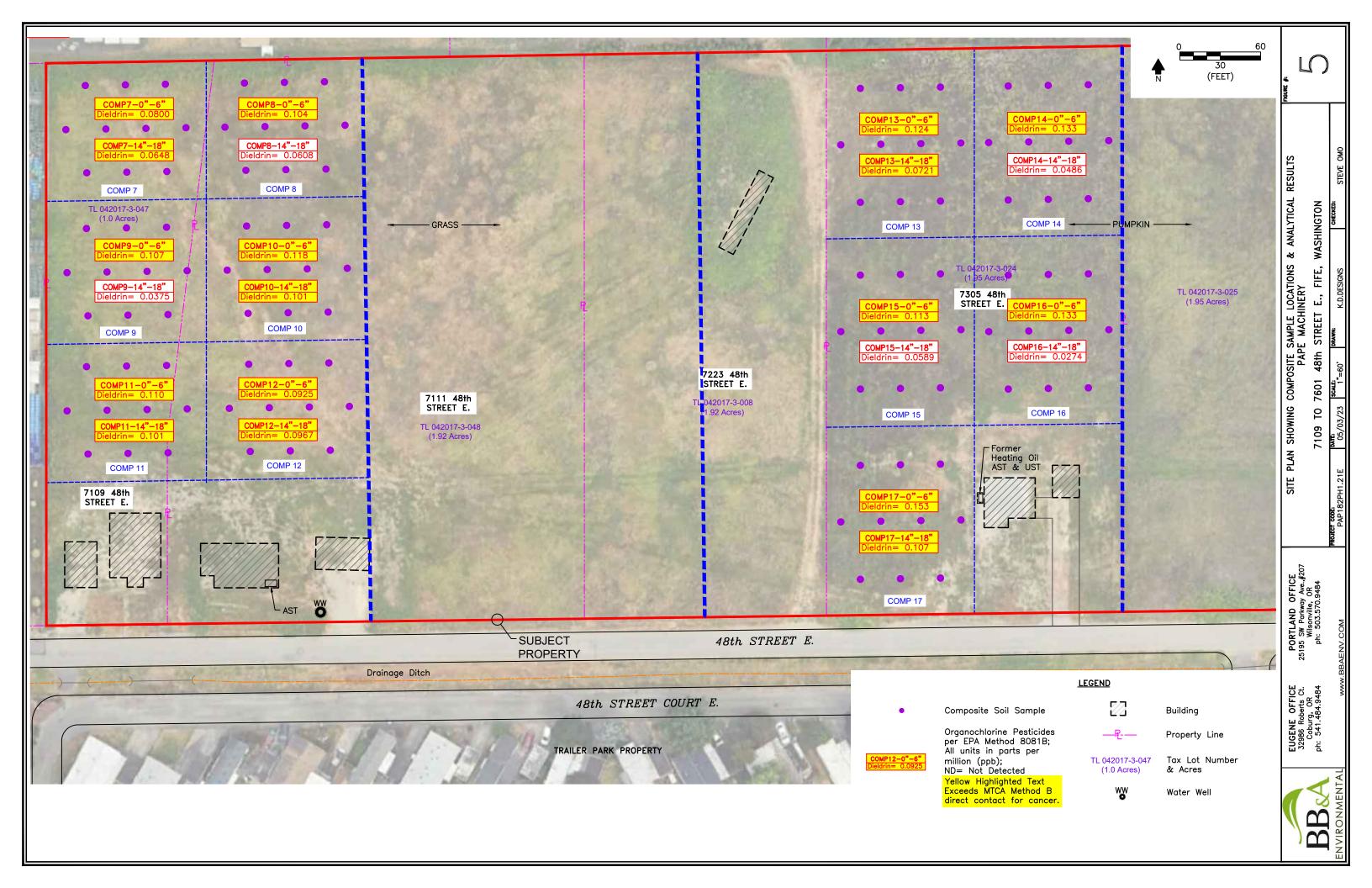
Upon collecting the grab samples at two (2) to eight (8) inches, a posthole tool was used to advance the hole to deeper depths of approximately 14 to 18 inches. Upon attaining this depth, clean nitrile gloves were used to retrieve a soil sample from the 14 to 18 inch depth, which was combined and thoroughly mixed within a one-gallon plastic ziploc bag, and then transferred to an eight (8) ounce soil jar filled to capacity. To prevent cross-contamination, clean nitrile gloves were used, and the posthole tool was decontaminated between sample sub-units.

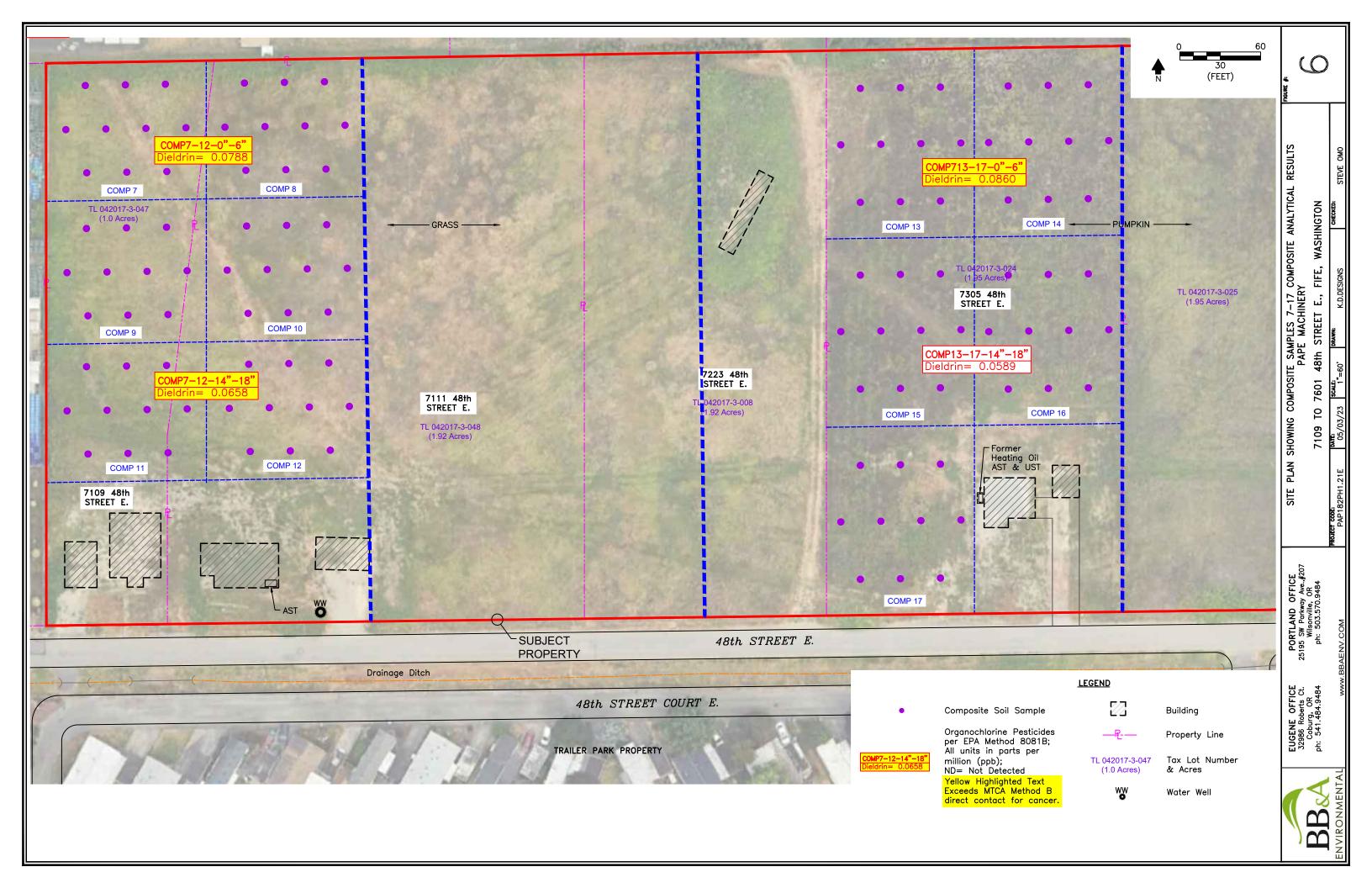
The sample containers were uniquely labeled, logged on a chain-of-custody form, and placed on ice until delivery to Apex Laboratory (a Washington certified laboratory) in Tigard, Oregon.

5.3 Soil Sampling Analytical Results

The soil analytical results are summarized on **Table 2** and **Figure 5**. The complete laboratory report is provided in **Appendix A**.

Table 2: Composite Soil Analytical Results – Focused Remedial Investigation, March 2023Multiple Parcels, 7109 - 7519 48th Street E, Fife, Washington								
All concentrations in milligrams per kilogram (mg/kg), or parts per million (ppm). Yellow highlighted values indicate concentration exceeding MTCA CULs. **MTCA Method B cancer (B-C) and MTCA Method C Cleanup Levels are provided.								
SURFACE SOIL SAMPLE IDENTIFICATION (0" - 6") (Composite ID – Sample Depth)	Dieldrin							
COMP7 - 0"-6"	<mark>0.080</mark>							
COMP8 - 0"-6"	<mark>0.104</mark>							
COMP9 - 0"-6"	<mark>0.107</mark>							
COMP10 - 0"-6"	<mark>0.118</mark>							
COMP11 - 0"-6"	<mark>0.110</mark>							
COMP12 - 0"-6"	0.0925							
COMP13 - 0"-6"	0.124							
COMP14 - 0"-6" 0.134								
COMP15 - 0"-6" 0.113								
COMP16 - 0"-6" 0.133								
COMP17 - 0"-6"	0.153							
NEAR SURFACE SOIL SAMPLE IDENTIFICATION (14" - 18	3")							
COMP7 - 14"-18"	<mark>0.0648</mark>							
COMP8 - 14"-18"	0.0608							
COMP9 - 14"-18"	0.0375							
COMP10 - 14"-18"	0.101							
COMP11 - 14"-18"	0.101							
COMP12 - 14"-18"	<mark>0.0967</mark>							
COMP13 - 14"-18"	0.0721							
COMP14 - 14"-18"	0.0486							
COMP15 - 14"-18" 0.0589								
COMP16 - 14"-18" 0.0274								
COMP17 - 14"-18" 0.107								
Washington Ecology Model Toxics Control Act (MTCA) Method Clear	nup Levels							
MTCA Methods B (Cancer) and C	MTCA Methods B (Cancer) and C 0.063 ^{B-C} / 8.2 ^C							





Surface / Shallow Sub-Unit Sampling Results: As can be seen in **Table 2**, dieldrin was detected in all of the shallow soil samples (i.e., two [2] to six [6] inch depth) at fairly consistent concentrations. Within the COMP 1 sample unit, dieldrin was detected in shallow soil from the sub-units at concentrations ranging from 0.08 to 0.118 ppm, with a mean value of 0.102 ppm – all exceeding the MTCA Method B cleanup level. Within the COMP 3 sample unit, dieldrin was detected in shallow soil from the sub-units at concentrations ranging from 0.124 to 0.153 ppm, with a mean value of 0.131 ppm – all exceeding the MTCA Method B (Cancer) cleanup level.

Deeper Sub-Unit Sampling Results: Within the COMP 1 sample unit, dieldrin was detected in the deeper soil samples (i.e., 14" to 18") from the sub-units at concentrations ranging from 0.0375 to 0.101 ppm, with a mean value of 0.077 ppm. Dieldrin concentrations in two (2) of the deeper sub-unit samples were below the MTCA Method B cleanup level; however, the mean value was still above the MTCA Method B cleanup level.

Within the COMP 3 sample unit, dieldrin was detected in the deeper soil samples (i.e., 14" to 18") from the sub-units at concentrations ranging from 0.0274 to 0.107 ppm, with a mean value of 0.063 ppm. Dieldrin concentrations in three (3) of the sub-unit samples were below the MTCA Method B cleanup level, and the mean value for all of the deeper samples in the COMP 3 sample unit was at the MTCA Method B cleanup level of 0.63 ppm.

5.6 Full Composite Soil Sample Results

After collection of the composite soil samples, all remaining "like" soil from the sub-units were combined, thoroughly mixed and sampled as "full composites." For example, after collecting the shallow soil samples from each sub-unit of COMP 1, all remaining soil in the one (1) gallon ziplock bags were combined as a "full composite," and labeled as COMP 7-12 – 0"-6". The resulting "full composites" are identified as:

- COMP 7-12 0"-6": A composite of all shallow soils collected from sub-units 7 through 12;
- **COMP 7-12 14"-18"**: A composite of all deeper soils (14" 18") collected from sub-units 7 through 12;
- **COMP 13-17 0"-6" :** A composite of all shallow soils collected from sub-units 13 through 17; and
- **COMP 13-17 14"-18" :** A composite of all deeper soils (14" 18") collected from sub-units 13 through 11.

The analytical results for the "full composite" samples are provided in **Table 3**. As presented, the full composite soil samples are lower than the mean values calculated for each depth and sample unit.

Table 3: Tax Lot Composite Soil Analytical Results – Remedial Investigation, March 2023Multiple Parcels, 7109 - 7519 48th Street E, Fife, Washington						
All concentrations in milligrams per kilogram (mg/kg), or parts per million (ppm). Yellow highlighted values indicate concentration exceeding MTCA CULs. **MTCA Method B cancer (B-C) and MTCA Method C Cleanup Levels are provided.						
SURFACE SOIL SAMPLE IDENTIFICATION (0" - 6")						
(Composite ID – Sample Depth)	Dieldrin					
COMP 7-12 – 0"-6"	<mark>0.0788</mark>					
COMP 13-17 – 0"-6"	0.086					
NEAR SURFACE SOIL SAMPLE IDENTIFICATION (14" -	18")					
COMP 7-12 – 14"-18"	0.0658					
COMP 13-17 – 14"-18" 0.0589						
Washington Ecology Model Toxics Control Act (MTCA) Method Cleanup Levels						
Methods A & B for Unrestricted Land Use 0.063 ^{B-C} / 8.2 ^C						

6.0 PRELIMINARY CONCEPTUAL SITE MODEL

The purpose of a Conceptual Site Model (CSM) is to evaluate potential exposure pathways, mechanisms, media, and routes by which human and ecological receptors may be potentially exposed to hazardous substances (in this case, petroleum contamination) at the *subject property*. As part of the CSM process, the following factors were considered:

- Current and future Land and Resource Use (e.g., zoning, land use, use of groundwater);
- Source and extent of contamination;
- Types of contaminants and constituents of potential concern;
- Types of media impacted (e.g., soil, water, vapor, surface water, etc.); and
- Route of exposure (e.g., inhalation, dermal contact, ingestion, etc.)

6.1 Current and Future Land and Resource Use

The *subject property* is located within the Fife city limits, and is zoned *Community Commercial*. To the north, the adjacent properties are zoned *Industrial* and operate as distribution warehouses. In general, properties to the west are of industrial use as waste transfer and recycling facilities, but are zoned *Community Commercial*. Papé Properties owns the three (3) residential properties (5.65-acres) to the east, and plans to redevelop these properties for industrial use as well. Properties to the south are of residential use as a trailer park, but are zoned *Community Commercial*.

Washington Administrative Code (WAC) 173-340-200 defines "Industrial properties" as those that are zoned "industrial use" by city or county (i.e., local jurisdiction), and/or "have been characterized by, or are to be committed to, traditional industrial uses such as processing or manufacturing of materials, marine terminal and transportation areas and facilities, fabrication, assembly, treatment, or distribution of manufactured products, or storage of bulk materials." Based on this definition, future use of the *subject property* is considered industrial use, since Papé intends to redevelop the *subject property* with a Papé Machinery facility for sales, service, and rental of forklifts, and high-lift machinery.

6.2 Contaminants of Concern

Based on the results of the February 10, 2021, Focused Phase II ESA, **dieldrin** is considered the only Contaminant of Concern (COC) associated with the *subject property*. According to the U.S. Department of Health Agency for Toxic Substances and Disease Registry (ATSDR), dieldrin is a chlorinated pesticide that was manufactured and used from 1948 to the early 1970's. Dieldrin has a strong affinity for organic matter and sorbs tightly to soil, with little to no leaching to groundwater, and no volatility. It should be noted that aldrin, another chlorinated pesticide, is found to break down in the environment and within insects to form dieldrin.

6.3 Source and Extent of Contamination

The source of contamination identified in soil is the result of historical application of pesticides on the former agricultural portions of tax lots 042017-3-047, 042017-3-048, and 042017-3-024. According to the former owners, pesticides were applied per standard operating practices and manufacturers recommendations. No spills or inadvertent releases of pesticides occurred onsite.

Horizontal and Vertical Extent of Contamination in Soil

- Vertical: The findings of the Focused Remedial Investigation did not identify the vertical extent of dieldrin in soil. During surface and shallow soil sampling, the upper 12 to 14 inches were noted to consist of soft silty soils likely due to the frequent tilling operations of the past. At depths of 16 to 18 inches, the soils were moderately hard and compact. It is suspected that the denser and more compact soils at depths greater than 16 to 18 inches retarded the vertical migration of dieldrin.
- Horizontal: The findings of the 2021 Focused Phase II ESA suggest that dieldrin contamination in soil exceeding MTCA Method B cleanup levels is limited to tax lots 042017-3-047, 042017-3-048, and 042017-3-024.

Extent of Groundwater Contamination: It is unknown if groundwater beneath the *subject property* has been impacted by dieldrin. Previous investigations at another portion of the *subject property* found uppermost groundwater to occur at depths ranging between eight (8) and 10.5 feet below land surface. It is important to note that pesticides were not detected in groundwater from an on-site water well.

6.4 Human-Health Routes of Exposure

Based on current and reasonably likely future use of the *subject property*, current use of municipal water-supply sources, depth to soil and groundwater, this Preliminary Conceptual Site Model (CSM) considers the following exposure pathways and receptor scenarios to be reasonably applicable:

- Ingestion, dermal contact, and/or inhalation of soil particulates by Excavation Workers is considered a complete exposure pathway.
- The results of the water well query completed in Section 3.3 identified seven (7) domestic water wells within three-quarter (0.75) mile radius from the *subject property* the closest being 0.25 to 0.5 miles to the east, upgradient of the *subject property*. The screened interval for the seven (7) domestic water wells ranged from 85 to 90 feet below land surface (BLS) at the shallowest well, to 288 to 298 feet BLS in the deepest well. All of the adjacent properties were found to be connected to the municipal water-supply system. Based on these findings, uppermost groundwater does not appear to be utilized as a source of domestic water (i.e., drinking water, bathing, etc.), and is considered an incomplete pathway. Ingestion or dermal contact with groundwater by Excavation Workers is considered a complete pathway.
- Inhalation of trench air within open excavations, or vapor intrusion into future onsite buildings is considered a complete exposure pathway. However, it is important to note that dieldrin is not considered a volatile compound – especially decades after application.

6.5 Ecological Receptors

Currently, the *subject property* is bare ground, and provides suitable habitat for burrowing insects, reptiles, and mammals, and the birds and mammals that prey on them. Papé currently has plans to redevelop the *subject property* with two (2) separate industrial facilities. These plans will effectively cap the *subject property* with buildings, service shops, concrete and asphalt parking lots and driveways, and gravel yards for displaying equipment. Some minor areas of landscaping and stormwater infrastructure will be included as part of construction and development.

7.0 CLEANUP STANDARDS

7.1 Proposed Soil Cleanup Standard – MTCA Method C Industrial Use

Based on proposed future industrial¹ land use of the *subject property* and adjacent properties to the east, plus zoning and land use of the adjacent properties to the north and west, and the findings of the Preliminary CSM, Model Toxics Control Act (MTCA) Method C cleanup levels for industrial land use are proposed for soil at the *subject property*. Method C cleanup levels were developed with industrial sites in mind, utilizing less stringent exposure assumptions, based on a 1 in 100,000 (10^{-5}) cancer risk, and are considered protective of human exposure via direct contact pathway for the *subject property* future land use.

7.2 Proposed Groundwater Cleanup Standards – MTCA Method B (Cancer) and C

Based on the results of the water well query completed in **Section 3.3**, uppermost groundwater does not appear to be utilized as a source of domestic water (i.e., drinking water, bathing, etc.). Further, based on proposed future industrial land use of the *subject property* and adjacent properties to the east, and industrial use and zoning to the west and north (downgradient), and the findings of the Preliminary CSM, MTCA Method C cleanup levels for industrial land use are proposed for groundwater beneath the *subject property*.

It is important to note that pesticides were not detected in groundwater from an on-site water well.

¹

Washington Administrative Code (WAC) 173-340-200 defines "Industrial properties" as those that are zoned "industrial use" by city or county (i.e., local jurisdiction), and/or "have been characterized by, or are to be committed to, traditional industrial uses such as processing or manufacturing of materials, marine terminal and transportation areas and facilities, fabrication, assembly, treatment, or distribution of manufactured products, or storage of bulk materials. Based on this definition, future use of the *subject property* as a Papé Machinery facility (sales, service and repair of large earth moving equipment), and Papé Material Handling facility (sales, service, and rental of forklifts, and high-lift machinery) is considered industrial use.

8.0 SUMMARY

The results of this Focused Remedial Investigation are summarized as follows:

Site Description

- The *subject property* is an approximately 18-acre, former agricultural- and residential-use property located at 7109 to 7601 (north side of) 48th Street East, in Fife, Washington. Pierce County identifies the *subject property* to be composed of the following parcels within map 042017-3: 047, 048, 008, 024, 025, 018, 039, 040, 037, 038, 029, and 031. At the time of the remedial investigation, the *subject property* was noted to be completely bare ground and absent of any former residential structures.
- Adjacent and nearby properties to the north and west are primarily of industrial use, and adjacent and nearby properties to the south and east are predominantly of residential and agricultural use. Papé Properties also owns the three (3) industrial and residential properties (5.65-acres) to the east, and has plans to redevelop these properties for industrial use.
- **Site History:** Based on historical aerials and County information, the *subject property* appears to have always been predominantly of agricultural use since at least the 1940's, with several residences along the southern portion of the property, adjacent to 48th Street East.

Focused Phase II Investigation

• In February 2021, a Focused Phase II ESA was conducted at the *subject property*. As part of the focused investigation, composite soil samples were collected from surface soils immediately beneath the plant-growing tables in the former greenhouses, as well as from the agricultural fields composing the *subject property*. Each composite sample was composed of 10 random surface / near-surface soil samples. Similarly, the agricultural parcels were subdivided into six (6) segments, where 10 random grab samples were collected and combined for six (6) composite soil samples (collected just beneath the root zone). Clean nitrile gloves were changed between samples to prevent cross-contamination.

Soil Analytical Results: Laboratory analysis of the composite soil samples detected the herbicide 2,4-D in four (4) greenhouse composite samples and the following pesticides in most of the greenhouse and agricultural field samples: Aldrin, beta-BHC, Lindane, cis-Chlordane, trans-Chlordane, 4,4'-DDD, 4,4'-DDE, 4.4'-DDT, Dieldrin, Endosulfan II, Endosulfan Sulfate, Endrin Ketone, and Heptachlor Epoxide.

MTCA Cleanup Level Comparison: To evaluate the herbicide and pesticide analytical results, the detected concentrations were compared to applicable MTCA Method B cleanup levels for unrestricted land use. Dieldrin was found to slightly exceed the *carcinogenic* MTCA Method B cleanup level in two (2) soil samples from the agricultural fields. All other detected herbicide and pesticide concentrations were generally orders of magnitude below MTCA Method B cleanup levels. The analytical results appear to show that historical use of pesticides occurred across most of the agricultural fields, and to some extent inside the greenhouses.

Water Well Sampling: As part of the Focused Phase II ESA, the water well at 7519 48th Street E was sampled for dissolved arsenic, nitrates, organochlorine pesticides, and herbicides. None of the potential contaminants analyzed for were detected above method-reporting limits.

Remedial Investigation

- In March 2023, BB&A conducted a Focused Remedial Investigation with the purpose of defining the magnitude and extent of dieldrin in soil at the *subject property*. More specifically, the former Composite 1 (COMP 1) and Composite 3 (COMP 3) sample units, where dieldrin exceeded MTCA Method B (Cancer) Cleanup Levels, were subdivided and resampled.
 - As part of the Remedial Investigation, the area identified as COMP 1, on the west portion of the *subject property* (composed of portions of tax lots 042017-3-047 and 042017-3-048), was subdivided into six (6) approximately equal sub-units. The area identified as COMP 3, identified as tax lot 042017-3-024, was subdivided into five (5) approximately equal subunits. Within each sub-unit, 10 random grab samples were collected at depths of two (2) to eight (8) inches, and again at a depth of 14 to 18 inches. Care was taken to prevent cross-contamination. The 10 sub-unit grab samples were combined and thoroughly mixed within a one-gallon plastic ziploc bag, from which eight (8) ounce soil jars were filled to capacity.

Surface / Shallow Sub-Unit Sampling Results: Laboratory analysis detected dieldrin in all of the shallow soil samples (i.e., two [2] to six [6] inch depth) at fairly consistent concentrations: dieldrin was detected in the sub-units of the COMP 1 sample unit at concentrations ranging from 0.08 to 0.118 ppm; and dieldrin was detected in the sub-units of the COMP 3 sample unit at concentrations ranging from 0.124 to 0.153 ppm – all exceeding the MTCA Method B (Cancer) cleanup level of 0.063 ppm.

Deeper Sub-Unit Sampling Results: Within the COMP 1 sub-units, dieldrin was detected in the deeper soil samples (i.e., 14" to 18") at concentrations ranging from 0.0375 to 0.101 ppm (mean value of 0.077 ppm), with dieldrin concentrations in two (2) of the deeper sub-unit samples were below the MTCA Method B cleanup level.

Within the COMP 3 sub-units, dieldrin was detected in the deeper soil samples (i.e., 14" to 18") at concentrations ranging from 0.0274 to 0.107 ppm, with a mean value of 0.063 ppm (at MTCA Method B cleanup level), and dieldrin concentrations in three (3) sub-units below the MTCA Method B cleanup level of 0.63 ppm.

Full Composite Samples: After collection of the composite soil samples, all remaining "like" soil from the sub-units were combined, mixed and sampled as "full composites." The full composite soil sample results were lower than the mean values calculated for each sub-unit, likely due to high sample variability. The "full composite" sample for all of the shallow (2" - 6") sub-unit samples for Comp 7 through 12 detected dieldrin at 0.0788 ppm; the "full composite" sample for all of the shallow (2" - 6") sub-unit samples for Comp 7 through 12 detected dieldrin at 0.0788 ppm; the "full composite" sample for all of the shallow (2" - 6") sub-unit samples for Comp 13 through 17 detected dieldrin at 0.086 ppm; the "full composite" sample for all of the deeper (14" - 18") sub-unit samples for Comp 7 through 12 detected dieldrin at 0.0658 ppm; and, the "full composite" sample for all of the deeper (14" - 18") sub-unit samples for Comp 13 through 17 detected dieldrin at 0.0589 ppm.

Conceptual Site Model (CSM): BB&A developed a preliminary CSM for the *subject property*. The results of the CSM identified the following receptors and exposure pathways as reasonably applicable and complete:

- Ingestion, dermal contact, or inhalation of soil particulates by Excavation Workers;
- Ingestion, dermal contact, and inhalation with groundwater by Excavation Workers (Shallow groundwater [less than 15 feet] as a drinking water source is considered an incomplete pathway);
- Inhalation of trench air within open excavations, or vapor intrusion into future onsite buildings.

9.0 CONCLUSIONS AND OPINIONS

Based on the findings of the Remedial Investigation, the following conclusions, opinions, and recommendations are provided:

- Historical application of chlorinated pesticides on former agricultural fields at the *subject* property has adversely impacted shallow soil on the western portion of the *subject* property. The findings of this Remedial Investigation found dieldrin in shallow soil (uppermost eight [8] inches) consistently at concentrations exceeding MTCA Method B (Cancer) cleanup level; slightly deeper soil samples (14 to 18 inch depth) had lower dieldrin concentrations, some below the MTCA Method B (Cancer) cleanup level. The detected dieldrin concentrations do not exceed MTCA Method C cleanup levels for industrial use.
- Papé Properties plans to redevelop the *subject property* (i.e., all tax lots, plus adjacent tax lots to the east) as industrial properties, including a Papé Machinery facility for sales, service and repair of large earth moving equipment, such as excavators and tractors, and Papé Material Handling Facility for sales, service, and rental of forklifts, and high-lift machinery.
- Based on future industrial use of the subject property, and the fact that all samples were well below MTCA Method C cleanup levels, adverse exposure to dieldrin by future on-site workers after redevelopment is not likely. If warranted, personal protective equipment should be utilized by excavation workers during redevelopment of the site.

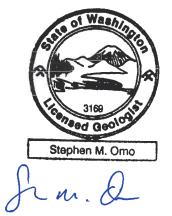
10.0 LIMITATIONS

The professional services of BB&A Environmental have been rendered using the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental consulting firms practicing in this or similar locations. No other warranty expressed or implied is made.

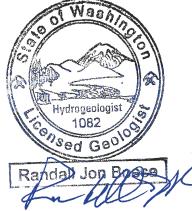
Soil samples were analyzed to identify and delineate surface and near-surface impact in areas most likely to have been impacted by historical applications of chlorinated pesticides. The results of their analyses only indicate the presence or absence of pesticides (i.e., specifically dieldrin) in those discrete and composited sample locations. Analytical data from the laboratory samples should only be considered as indicators of site conditions and not a guarantee of the absence of pesticides (i.e., dieldrin) in areas not sampled.

The conclusions presented in this report are based only on the observations made during field investigation and data provided by others. The accuracy of these findings is based upon the accuracy of data and information provided by others. The findings of this assessment should not be considered as scientific certainties, but rather as professional opinion based upon selected and limited data.

If you have any questions concerning the information contained in this report, please do not hesitate to contact us.



Stephen M. Omo, RG Project Manager / Geologist



Randall J. Boese, RG/LHG Senior Hydrogeologist

APPENDIX A

Water Well Query – Three-Quarter Mile Radius

Water Well Query Results

					Depth of Screened
Well ID	Use	Address	Distance from Subject Property	Depth	Interval
45329	Domestic Water Well	8105 48th St E, Fife	0.5 miles E	45'	38' - 45'
50066	Domestic Water Well	7022 River Rd, Puyallup	0.25 mile S, beyond Puyallup River	298'	288' - 298'
51348	Domestic Water Well	7807 60th St E, Fife	0.8 miles W-NW	276'	268' - 273'
52084	Domestic Water Well	NE 1/2 or NW 1/2 Section 20	Unknown could be within 500'	306'	287' - 297'
301365	Domestic Water Well	8105 48th St E, Fife	0.5 miles E	175'	168' - 175'
313681	Domestic Water Well	5707 76TH Ave E	0.62 miles SE , beyond Puyallup River	95'	85' - 90'
341330	Domestic Water Well	4524 E Freeman Rd	0.5 miles E	118'	105' - 110'
428754	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
428756	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
428757	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
428758	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
428759	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
428761	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
469724	Resource Protection Well	4622 70th Ave E	0.13 miles W	16'	Not a water well
469724	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469726	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469728	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469730	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469732	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469734	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469736	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469738	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469740	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469742	Resource Protection Well	4609 70th Ave E	0.13 miles W	12'	Not a water well
469744	Resource Protection Well	4609 70th Ave E	0.13 miles W	16'	Not a water well
469746	Resource Protection Well	4609 70th Ave E	0.13 miles W	10'	Not a water well
574562	Resource Protection Well	8105 48th St E, Fife	0.47 miles E	10'	Not a water well
574563	Resource Protection Well	8105 48th St E, Fife	0.47 miles E	10'	Not a water well
598212	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598214	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598216	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598218	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598220	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598222	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598224	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598226	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598228	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
599109	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599110	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599111	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599112	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599113	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599114	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
658137	Monitoring Well	North Levee Rd	0.16 miles S	20'	Not a water well
887269	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
887271	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
887287	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
890776	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
928611	Resource Protection Well	7218 45th Ct E	Adjacent property to the N-NE	19'	Not a water well
928629	Resource Protection Well	7218 45th Ct E	Adjacent property to the N-NE	19'	Not a water well
1557247	Resource Protection Well	8105 48th St E	0.47 miles E	50'	Not a water well
1557249	Resource Protection Well	8105 48th St E	0.47 miles E	50'	Not a water well
1595809	Domestic Water Well	7801 48th St E	0.25 miles E	120'	107' - 117'
1600728	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	30'	Not a water well
1996333	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
1996336	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
1996368	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
	Resource Protection Well	7305 48th St E	Subject Property, Former Heating Oil Tank	20'	Not a water well

Water Well Query Results

Well ID	Use	Address	Distance from Subject Presents	Denth	Depth of Screened
45329	Domestic Water Well	8105 48th St E, Fife	Distance from Subject Property	Depth	Interval
50066	Domestic Water Well	7022 River Rd, Puyallup	0.5 miles E	45'	38' - 45'
51348	Domestic Water Well	7807 60th St E, Fife	0.25 mile S, beyond Puyallup River 0.8 miles W-NW	298'	288' - 298'
52084	Domestic Water Well	NE 1/2 or NW 1/2 Section 20		276'	268' - 273'
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574562	Resource Protection Well	8105 48th St E, Fife	0.47 miles E	10'	Not a water well
574563	Resource Protection Well	8105 48th St E, Fife	0.47 miles E	10'	Not a water well
598212	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598214	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598216	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598218	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598220	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	19'	Not a water well
598222	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598224	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598226	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
598228	Monitoring Well	70th Ave & 45th Ct E, Fife	0.23 miles W-NW	24'	Not a water well
599109	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599110	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599111	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
5 9911 2	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599113	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
599114	Monitoring Well	North Levee Rd	0.16 miles S	21.5'	Not a water well
658137	Monitoring Well	North Levee Rd	0.16 miles S	20'	Not a water well
887269	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
887271	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
887287	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
890776	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	15'	Not a water well
928611	Resource Protection Well	7218 45th Ct E	Adjacent property to the N-NE	19'	Not a water well
928629	Resource Protection Well	7218 45th Ct E	Adjacent property to the N-NE	19'	Not a water well
1557247	Resource Protection Well	8105 48th St E	0.47 miles E	50'	Not a water well
1557249	Resource Protection Well	8105 48th St E	0.47 miles E	50'	Not a water well
1595809	Domestic Water Well	7801 48th St E	0.25 miles E	120'	107' - 117'
1600728	Resource Protection Well	4617 70th Ave E	Adjacent property to the W	30'	Not a water well
1996333	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
1996336	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
1996368	Resource Protection Well	7400 48th St E	Adjacent property to the SE	20'	Not a water well
	Resource Protection Well	7305 48th St E	Subject Property, Former Heating Oil Tank		····

		# 453	29		
File Original and First Copy with Department of Ecology Second Copy—Owner's Copy Third Copy—Driller's Copy	ER WEL			0293	303
(1) OWNER: Name Claral John		Address \$105	48 m St. E- 7	Jeom	~
(2) LOCATION OF WELL: County The Piece (24) STREET ADDRESS OF WELL (or nearest address)		SW.	KSW K Soc 17 T.	2.04., R	<u>4e</u>
(3) PROPOSED USE: Domestic Industrial Difference Industrial Differ	Municipal () Other D	Formation: Describe by co	BANDONMENT PROCEDI		
(4) TYPE OF WORK: Owner's number of well (If more than one)		with at least one entry for eac			t penetrated,
Abandoned Deepened Cable Reconditioned Rotary	Bored D Driven D Jetted D	Sondy war	brown	PROM	8
(5) DIMENSIONS: Diameter of well 6 Drilled 48 feet, Depth of completed well 4	inches.	Sill & Small	brown	8	36
Drilled 7.0 feet. Depth of completed well 4	<u> </u>	ill, Sand & O	ravel "	36	37
Casing installed: · Diam. fromft, to Welded · Diam. fromft, to Liner installed · Diam. fromft, to Threaded · Diam. fromft, to	L	Somel ? gru	vel black with red flocks	37	43
Perforatione: Yes No		Sand & silt		43	
			······································		
Screens: Yes No No Manufacturer's Hame					
Type 5 7/8 Stot size 1.5 from 38 ft. to Diam. 5.7/8 Stot size from 1.10	<u>-45</u> n)		
Gravel packed: Yes No Size of gravel	Ht.		2		
Surface seat: Yee No To what depth? 17 Material used in seal BED tonite	ii	r,	· ·		
Did any strata contain unusable water? Yes No No Depth of st Type of water?	rete				
(7) PUMP: Manufacturer's Name Goulds Type: Submersible				ļ	
(8) WATER LEVELS: Land-surface slovation above mean sea level	<u>1-89</u>	· · · · · · · · · · · · · · · · · · ·		· · · · ·	
Artesian pressure foe, per equare inch. Date Artesian water is controlled by (Cap, velve, etc.	a.))	Wet stated 10- 30-	sá		
(9) WELL TESTS: Drawdown is amount water level is lowered by What is produced to the second s		WELL CONSTRUCTO			
Recovery data (time taken as zero when pump turned off) (water law from well top to water level)	58 38	and its compliance	accept responsibility for con- with all Washington well co- the information reported above	nstruction (standarda.
Time Water Level Time Water Level Time 15:05 14'-3' 15:08 13'-9" 15:15 15:00 13'-10" 15:09 13'-874' 15:07 13'-9'4' 15'10 12'-874'	Water Long	NAME Carpenson, Address 2032 S	FIRM. OR COMPORATION OF BAY Rd Oly	mpig	
Date of test gal./min. with N. drawdown effor Airtest gal./min. with stem set at N. fr. for Artesian flow g.p.m. Date	hrn.	(Signed) James L. Contractor's (Well Registration No. Chicker Dr. H o CC		но <u>. 06</u>	7 _, 1987

(USE	ADDITIONAL	SHEETS	IF	NECESSARY)
		5. S. S.		

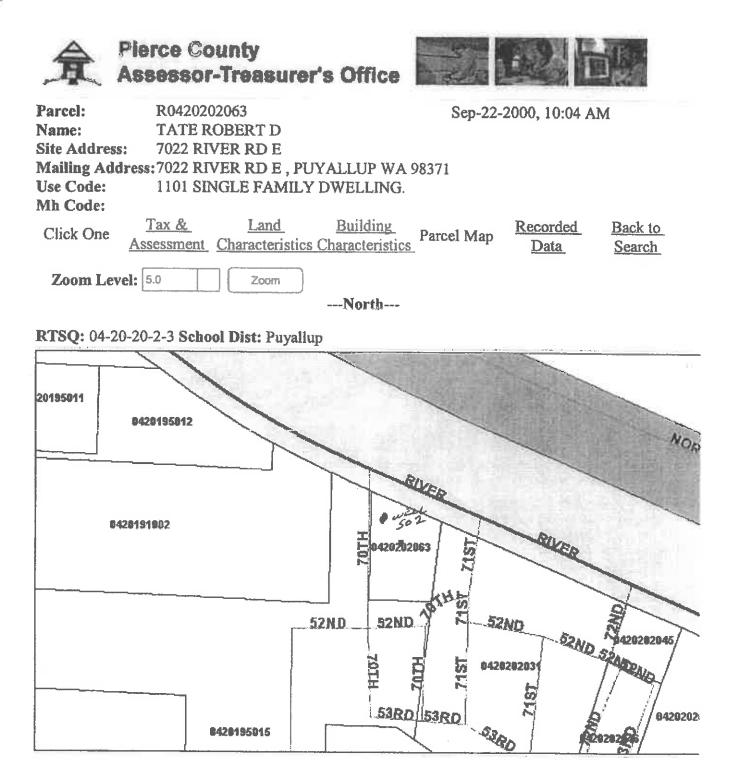
Department of Ecology	
Second Copy - Owner's Copy	
Third Copy - Driller's Copy	

WATER WELL REPORT #50066

Application No.

STATE OF Y	VASHINGTON Permit No	· · · · · · · · · · · · · · · · · · ·	1.17 1217 120 232 1234 5 1
(1) OWNER: Name Majestic Mobile, Inc.	Address 7022 River Rd, Puyallup, Wa.	98371	
(2) LOCATION OF WELL: County Pierce			
Bearing and distance from section or subdivision corner		termeting diburg	Firsterne WW ullda a
(3) PROPOSED USE: Domestic 😰 Industrial 🔲 Municipal 🗌	(10) WELL LOG:		
Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of t stratum penetrated, with at least one entry for each ch	l and struc he materia	ture, and al in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	TROM	TO
New well 🔀 Method: Dug 🗆 Bored 🗍 Deepened 🗍 Cable 🗶 Driven 🗍	Top soil	0	3
Reconditioned Canada Canada Contrary Canada Sector	Grey sand (dry)	3	25
	Grey Sand (dry)	25	35
DIMENSIONS: Diameter of well8 inches. Drilled_298ft. Depth of completed well_298ft.	Grey Sand & peat & wood chip (seep	35	39
Drilled 298 ft. Depth of completed well 298 ft.	Grey sand (seep)	39	49
(6) CONSTRUCTION DETAILS:	Black sand (some water)	- 49	_54
Casing installed: 8 Diam. from 0 ft. to 288 ft.	Black sand & gravel (some water)	54	62
Threaded] "Diam. from	Grey sandy clay	62	95
Weldeda	Grey_sandy_clay	95	118
Desferations	Componentiportoporor		
Perforations: Yes No 83	Hard packed silt	118	132
SIZE of perforations	Blue silt (heaves)	_132	140
perforations from	Blue clay	140	180
perforations from	Blue clay	180	
perforations from	Blue clay	217	245
Screens: Yes @ No	Blue clay	245	270
Manufacturer's Name Johnson Hell Screen	Sandy blue clay	270	276
Type Stainless Steel Model No.	Compacted silt & sand (dirty-		
Diam	heaves)	276	290
Diam	Fine black sand (water bearing)	290	_293_
Gravel packed: yes I No 3 Size of gravel:	Fine black sand (water bearing)	293	
Gravel placed from	······································		
Surface seal: yes 2 No To what depth? 20 n. Material used in seal Bentonite			
Did any strata contain unusable water? Yes 🗋 No 🕅			
Type of water? Depth of strata	DECEIVED		
Method of sealing strata off	NL VL		
(7) PUMP: Manufacturer's Name			
Type:	JAN IS ISOL		
(8) WATER LEVELS: Land-surface elevation			
Static level 0	DEPARTMENT OF LOOPAL OFFICE		
Artesian pressurelbs. per square inch Date Artesian water is controlled by			
Artesian water is controlled by		L	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 10-20 19 81. Completed 11	l L+5	10 81
Was a pump test made? Yes in No 🕲 If yes, by whom?		11 July 10 and 1	integ and second at the
Yield: gal./min, with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:		
144 FF F	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	report is
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Richardson Well Drilling Co.		*******
	(Person, firm, or corporation) ("	Type or p	rint)
	Address P.O. Box 44427 Pacoma, Wa.		4
Date of test	Isizan air the	-	
Bailer test 45 gal/min. with 140 ft. drawdown atter 1 hrs. Artenian flow g.p.m. Date 11-4-81	(Well Driller)	****	
Temperature of water	License No. 223-02-6500 Date 1-11	L	, 19.8.2

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Pierce County Assessor-Treasurer 2401 South 35th St Room 142 Tacoma, Washington 98409 (253)798-6111 or Fax (253)798-3142

I acknowledge and agree to the prohibitions listed in <u>RCW 42.17.260(9)</u> against releasing and/or using lists of individuals for commercial purposes.

51348

Start Card No. _000922

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			's Cop Copy	у

WATER WELL REPORT STATE OF WASHINGTON

FINEL		Water Right Parmit No.		
(1)	OWNER: Name Pierce County Housing Autho	prityAddress P.O.Box 45410, Tacom	a 984	44
(2)	LOCATION OF WELL: County Pierce		20_N, R	4 <u>E w.</u>
(2a)	STREET ADDDRESS OF WELL (or nearest address) 7807-60th	St.E. Fife		
(3)	PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDU	_	
		Formation: Describe by color, character, size of material an thickness of aquifers and the kind and nature of the material in ex-	id structure ach stratum	, and show penalisted
(4)	TYPE OF WORK: Owner's number of well (If more than one)	with at least one entry for each change of information. MATERIAL	FROM	то
	Abandoned New well XX Method: Dug 🗋 Bored 🗍 Deepened 🗍 Cable 🗍 Driven 🗍	Topsoil		5
	Reconditioned 🗆 Rotary 🕱 Jetted 🗆	Brn/Gray silt, damp sand	5	30
(5)	DIMENSIONS: Diameter of welt6inches.	Same with gravels	30	35
	Drilled 276 feet. Depth of completed well 276 tl.	Brn silts and sand	35	50
(6)	CONSTRUCTION DETAILS:	Gray sand, gravel, wood chip	<u>5 50</u>	60
1-1	Casing installed: 6 Diam. from +3 h. to 268 h.	water	<u> </u>	+ 0.0
	Welded 🔯 Pinm. from ft. to ft. toft. toft. toft. toft. toft. toft.	Gray silt sand, water	60 100	100
	Liner installed L Threaded L Diam, fromft. toft.	Brn silt, sand and water	120	160
	Perforations: Yes No X	Brn silty sand, clay wood	160	240
	Type of perforator used	chips, water		
	SIZE of perforations in, by in,	Brn sand gravel, water	240	265
	perforations from ft. to ft. toft. to ft. toft. toft	Blk sand ,gravel, water	265	27.6
	perforations from ft. to ft.			
	Screent: Yes X No			<u> </u>
	Manufacturer's Name Johnson			
	Type stainless steel Model No.			
	Diam. 5" Slot size			
	DiemSlot sizefromft. toft.		<u> </u>	<u> </u>
	Gravel packed: Yes No X Size of gravel			<u> </u>
-	Gravel placed from ft. to ft.		70	<u> </u>
	Surface seal: Yes No To what depth? 18		0	
	Material used in seal <u>Bentonite</u>	22		
	Did any strata contain unusable water? Yee	1 5-12 VI		
	Type of water?Depth of strata Method of seeling strata off	· · · · · · · · · · · · · · · ·		
(7)	PUMP: Manufacturer's Name Berkeley			
	Type: submersible H.P. 1			
	Land-surface elevation		1	
(0)	Static levelft. below top of well Date _12/8/87			1
	Artenian pressure Q the per adjustic linch Data $12/2/37$			
	Artesian water is controlled by <u>3'</u> SHCKian (Cap. valve etc.))			L
(9)	WELL, TESTS: Drawdown is amount water level is lowered below stallc level	Work started 12/3/87, 19. Completed 12	<u> </u>	<u> </u>
	Was #pump test made? Yes No Hyee, by whom?	WELL CONSTRUCTOR CERTIFICATION:		
	Yield: 15 gal./min.with ft. drawdown after hrs.	I constructed and/or accept responsibility for cont	itruction o	this well
	n i 10 11 11 11 11	Material dept Bid Tie Hiddington toholde anevo	are true (to my bes
	Recovery data (time taken as zero when pump turned off) (water level measured	knowledge and beliat.		
	from well top to water level) Time Water Level Time Water Level Time Water Level	NAME OFLKE DRILLING. INC.		
		(PERSON, FIRM, OR CORPORATION)	(TYPE C	or paint)
		Address 4312-166th Ave. E. Sum	ner 9	8390
	Date of test			
	Baller test gal,/min. with ft. drawdown after hre.	(Signed) (West DRULER)	No <u>, 1.5.2</u>	6
	Airtest gal./min. with stem set at fl. for hre.	Contractor's		
	Artesian flow g.p.m. Date	No. OELKEDI136QC Date 6/20/		_, 19.8.8
	Temperature of water Was a chemical analysis made? Yes No X	(LISE ADDITIONAL SHEETS IS NECES	CARVI	

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(USE ADDITIONAL SHEETS IF NECESSARY)

File Originat and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

i.

WATER WELL REPORT

52-084

Application No.

	WASHINGTON Permit No.			
(1) OWNER: Name_Robert_Chittack	Address 2021 Broadway E., Seattle, W	A 9810		
(2) LOCATION OF WELL: County Pierce Bearing and distance from section or subdivision corner NE ¹ / ₄ of a	- NE 14 NW 14 Sec 20 T	20 _{N. R}	4E w.m	
(3) PROPOSED USE: Domestic Municipal [] Municipal [] Irrigation [] Test Well [] Other []		and stre	iching and	
(4) TYPE OF WORK: Owner's number of well (if more than one)	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.			
New well 1 Method: Dug 1 Bored	MATERIAL	FROM	TO	
Despenet 📋 Cable 🐒 Driven 🖸		0	2	
Reconditioned Retary Jetted	Dark brown muddy sand	2	18	
(5) DIMENSIONS: Diameter of well 6 inches	Black sand, water bearing	18	22	
Drilled 300 ft. Depth of completed well 300 ft	DIGCA & DIOWN LAYERS OF Sand	22	70	
	brown muddy sand & clay, little	70	80	
(6) CONSTRUCTION DETAILS:	water - "stinks"			
Casing installed: Diam. from ft. to289 ft	Brown clay with little sand	80	90	
Threaded []	Black & brown sand, dirty	90	110	
Welded B Dintn. from fi. to fi	Rlack sand, water bearing	110	115	
Perforations: yes 🗆 No 🛛	Brownish muddy sand & clay	115	141	
Type of perforator used	Grey clay & sand	141	152	
SIZE of perforations in, by	BLACK SADA & DAFK GTEV CLAV	152	170	
perforations from	Grey clay, rubbery	170	180	
manufacture perforations from another the to another the the		180	<u>190</u>	
perforations from		190	211	
Screens: Yes M No	Same, with layers of soft & hard	211	251	
Manufacturer's Name John Son	Black muddy sand, water bearing	251	261	
Type Stainless Model No	Black muddy sand & gravel, water	261		
Diam			281	
Diam			290	
Gravel packed: Yes 🗋 No 🕅 Size of gravel:	Grey & black muddy sand with wate	- 290	306	
Gravel placed from				
Surface seal: Yes X No To what depth?18 R Material used in sealbentonite	- KELLER			
Did any strata contain unusable water? Yes 🗌 No 🖁		****		
Type of water?				
Method of scaling strata off				
(7) PUMP: Manufacturer's Name				
Type:				
Million				
(8) WATER LEVELS: Land-surface elevation above mean sea level				
Static level				
Artesian pressure approx. 4 lbs. per square inch Date 2/2/80				
Artesian water is controlled by				
(9) WELL TESTS: Drawdown is amount water level is lowered below static level				
	Work started Oct. 10 19 79 Completed Fel	b. 2	1980	
Was a pump test made? Yes 🕱 No 🗔 If yes, by whom? Indreho Yield: 55 gal./min. with 5 ft. drawdown after 1½ hrs.				
11 () () () () () () () () () () () () ()				
44 80 (H) (H)	This well was drilled under my jurisdiction a true to the best of my knowledge and belief.	nd this	report is	
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)				
measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Indrebo Drilling Corporatio	ודכ		
June water Level Time water Level Time water Level	NAMEIndrebo.DrillingCorporation (Person, firm, or corporation) (T	ype or pr	int)	
	Address 1653 So. 95th, Tacoma, WA	98444		

Date of test 2/2/80				
Bailer test gal/min, with ft, drawdown after hrs.	[Signed]David_Sherratt (Well Driller)	*************		
Artesian flow		-		
Temperature of water	License No.1047. Date Feb.		., 19. 80	

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File Original and First Copy with	
Department of Ecology	
Second Copy - Owner's Copy	

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File Original and First Copy with Department of Ecology WATER WEL	I REPORT Notice of Intent		
Second Copy - Owner's Copy Third Copy - Driller's copy 8-1762 STATE OF WA		# <u>AFJ9</u>	8 <u>3</u>
(1) OWNER Name Indian Health Service - Clara Johns	Address 2201 Sixth Avenue Room 200, Seattle, V	VA 98121	
(2) LOCATION OF WELL County <u>Pierce</u> (2a) STREET ADDRESS OF WELL (or nearest address) <u>8105 48th, Fife</u> TAX PARCEL NO	- SW 1/4 SW 1/4 Sec 17 T		EWM
(3) PROPOSED USE X Domestic Industrial Municipal Tringation Test Well Olher DeWater	(10) WELL LOG or DECOMMISSIONING PROCEDUR Formation Describe by color character size of material and structure nature of the material in each stratum penetrated with at least one enti-	and the kind an	d
(4) TYPE OF WORK Owner's number of well (If more than one)	of information Indicate all water encountered		
X New Well Method	MATERIAL Brown silty sand	EROM 0	то 22
	Grey silty sand & water	22	33
Decommission X Rolary Delted	Grey sand gravel & water	33	40
(5) DIMENSIONS Diameter of well 6 inches	Grey clay	40	48
Dnilled 175 feet Depth of completed well 175 ft	Medium grey sand & water	48	62
(6) CONSTRUCTION DETAILS	Gravel sand & water Grey sand wood & water	62	67
Casing Installed	Grey sandy clay	85	<u>85</u> 97
XWelded 6 Dram from +2 ft to 167 ft	Fine grey sand & water	97	102
Dram from ft Threaded Dram from	Brown sandy clay with seashells @ 110	102	
	feet		130
Perforations Yes X No	Fine grey sand & water	130	138
Type of perforator used	Grey clay	138	150
SIZE of perforations in by in by in by	Brown silty clay Grey silty sand & water	150	168
perforations from fi to fi	Brown grey clay	<u>168</u>	<u>173</u> 175
perforations from ft to ft			1/5
			·
Screens XYes No K-Pac Location 2' extension on botto	n, 5' ext on lop		
Manufacturer's Name Johnson			
Type Super 6 Model No Diame 6 Stol size 6 from 168 ft to 173 ft	······		
Dram <u>6</u> Slotsize <u>6</u> from <u>168</u> ft to <u>173</u> ft Dram Slotsize from ft to tt			·
	RECEIVER		
Gravel/Filter packed (Yes (X)No (Size of gravel/sand Material placed from ft to ft			
Surface seal XYes No To what depth? 25 ft	DEC_2_7_2000		
Material used in seal Bentonite			
Did any strata contain enusable water? Dyes Xi No Type of water? Depth of strata			
Method of sealing strata off	DEPT OF ECOLUG	v	
		I	
(7) PUMP Manufacturer's Name H P			
(8) WATER LEVELS Land-surface elevation above mean sea level fi	Work Started <u>11/29/2000</u> 19 Completed <u>12/1</u>	/2000	, 19
Static level ft below top of well Date 12/1/2000			
Artesian preasure lbs par square inch Date	WELL CONSTRUCTION CERTIFICATION I constructed and/or accept responsibility for construction compliance with all Washington well construction standau	ds Materials	used
(9) WELL TESTS Drawdown is amount water level is lowered below static level	and the information reported above are true to my best to	cwiedge and l	belief
Was a pump test made? XYes No If yes, by whom? Scott Fowler	Type or Print Name Raiph Riggles Licen (Licensed Driller/Engineer)	se No 2043	<u> </u>
	Trainee Name Licen	se No	
Tield gal/min with ft drawdown after hrs Yield gal/min with ft drawdown after hrs	Driling Company Dahlman Pump & Well Driling		·
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	(Signed) Balsher, Liggelles Liken		
Time Water Level Time Water Level Time Water Level 75 11 inch	(Licensed Differ/Engineer)		
	Address P. O Box 422, Burlington, WA 98233		
	Contractor's Registration No DAHLMPW123LC Date 12/	12000	10
Date of test 12/4/2000	Registration No DAHLMPW123LC Date 12/	4/2000	19
Bailer test gal /min with tt drawdown after hrs	(USE ADDITIONAL SHEETS IF NECE	SSARY)	
Airtest 7.5+ gal /min with stern set at ft for 2 hrs	Ecology is an Equal Opportunity and Affirmative Action	-	or
Arlesian flow g p m Date	special accommodation needs, contact the Water Resp	urces Proora	ann at
Temperature of water Was a chemical analyses made? XYes _No	(360) 407-6600 The TDD number is (360) 407-6006		

	#31368	t		
Department o Second Copy	- Owner's Conv	Start Card No ELL REPORT UNIQUE WELL ID # WASHINGTON Water Right Permit No		
(1) OWNE	R Name Roo Thurston	skress	1	
	ION OF WELL County Receive TADDRESS OF WELL (or nearest address) 5707 76	ME 14 114 14 500 20 T	20 N R_	HE-WM
(3) PROP(SED USE -2" Domestic Industrial Cl Municipat D Inrigation Irrigation Test Well Other D	(10) WELL LOG or ABANDONMENT PROCEDURE Formation Describe by color character size of material and structure, and and the kind and nature of the material in each stratum penginated with	DESCRIPT	and shared have
	OW DE NUMBER OF WORK OWNERS NUMBER OF WORK (It more than one)	change of information MATERIAL	FROM	то
Abando	ed New well A Method Dug Bored Despend C Cable A Driven Reconditioned Reconditioned A Rotary Difference C	BLOWN SANDY LOWA	0	201
(5) DIMEN Drilled	SIONS Diameter of well inches inches fit	a Clony, Logs		
1-7		GRAN GANAN CLAY . GRAVE	3/	<u>36'</u>
Type of p	ions Yes No-2 enforation used in by in perforations from ft to ft	Blawn any Sawag- Logs	31'	60
Science	perforations from fi to fi	Comp Sawan Clay Logs Coemed		73'
Manufect Type Diam Diam	Uners Name Jolu 34 U DLA: All \$\$\$ Model No 14 Slot size 17 from 55 ft to 90 ft Slot size from 55 ft to 90 ft slot size from ft to ft ft slot size from ft to ft	Geny Brupy Clay	71	73'
	iced fromft toft	Geny Sava - Waln	77	90'
Material (Did any s Type of w		Geory CloRECEIVED	91	93'
(7) PUMP- Type	Manufacturer's Name N P	Washington State		
(8) WATER	LEVELS: Land-surface elevation above mean sea level J Ar	Work Started	2</td <td>, 19 OY</td>	, 19 O Y
Static leve Artesien p		WELL CONSTRUCTOR CERTIFICATION.	7 n of this well	II, and its
Was a pu	Image: Second state with the second state withe second state with the second state with the second st	compliance with all Washington well construction standard the information reported above are true to my best knowled NAME	s Malenals ge and belief	used and
PRecovery top to wat Time	(** ** ** ** ** ** ** ** ** ** ** ** **	(Signed) <u>Bandy</u> <u>Hermin</u> Licent (Signed) <u>Bandy</u> <u>Hermin</u> Licent (Well DWLLER) Contractor's Registration No <u>MORE I MUOBIO</u> Date <u>5</u> 227 (USE ADDITIONAL SHEETS IF NECESS	1.	2 9544 37 <u>7</u> 19
Airtest Artesian t	gai /mm with stem set at It for hrsgai /mm with stem set at It for hrs ow g p m Date re of watter Was a chemical analysis made? Yes No	Ecology is an Equal Opportunity and Affirmative Action cial accommodation needs, contact the Water Resource 407-6600 The TDD number is (206) 407-8006	employer F & Program	For spe- at (206)

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File Orig & First Copy - Dept of Ecology WATER	WELL REPORT Start Card No W159197
	of Washington Unique Well ID AGN192
	Water Right Permit No
	2002 E 28TH ST TACOMA WA 98404 Page 1 of
(2) LOCATION OF WELL County PIRCE	SE 1/4 SW 1/4 Sec 17 T 20 N R 4 E
(2a) STREET ADDRESS OF WELL (or nearest address) 4524 E FREEN	IAN RD PUYALLUP WA
(3) PROPOSED USE DOMESTIC (4) Type of work NEW WELL	(10) WELL LOG OT DECOMMISSIONING PROCEDURE DESCRIPTION
Method ROTARY	Material From To
(5) DIMENSIONS Diameter of well 6 inch	es BROWN ORGANIC SILT FINE SAND & PEAT 0 10
Drilled 118 feet Depth of completed well 110	ft GREY SILT SOME FINE SAND AND WOOD 10 26
	GREY FINE TO MED SAND TRACE OF SMALL
(6) CONSTRUCTION DETAILS Casing instld 6 " Diam from 0 ft to 105	GRAVEL (WATER BEARING) 26 35
Casing instit 6 " Diam from 0 ft to 105 Welded X	ft GREY-BLACK FINE TO MEDUIM SAND SOME
Liner Diam from ft to	ft (WATER BEARING) 35 51
Threaded	GREY FINE SAND AND SILT, SOME WOOD
	(WATER BEARING) 51 62
Perforations Yes No X	BROWN SANDY CLAY (WATER BEARING) 62 65
Type of perforator used	CREY FINE SAND W/BROWN SILT WATER BEAR 65 112
Size of perforations in by perforations from ft to	IN GREY FINE SAND BROWN SILT TRACE OF
	1n WOOD (WATER BEARING) 112 118
perforations from ft to	10
······	
Screens Yes X No	
Manufacturer's Name JOHNSON Type STAINLESS Model No	
	ft
	ft
Gravel packed Yes _ No X Size of gravel	
Gravel placed from ft to	ft
Surface seal Yes X No _ To what depth? 18	ft
Material used in seal BENTONITE	
Did any strata contain unusable water? Yes _ No X	
Type of water? Depth of strata	
Method of sealing strata off	
(7) PUMP Manufacturer's Name JACU221	
Type SUBMERSIBLE H P 0 75	<u>SEP 2 0 2002</u>
	te Washington State
Static level 3 7 ft below top of well Date 07/08/	Department of Ecology
Artesian pressure lbs per sq in Date Artesian pressure is controlled by	
(9) WELL TESTS Pump test made? By whom?	Work Started 07/03/02 Completed 07/08/02
	rs WELL CONSTRUCTOR CERTIFICATION
Yield 0 gal /min with ft drawdown after } Recovery data	I constructed and/or accept responsibility for construction o
	this well, and its compliance with all Washington well const-
	1 ruction standards Materials used and the information reporte above are true to my best knowledge and belief
	Name RICHARDSON WELL DRILLING
	Address P O Box 44427 Tacoma WA 98444
Date of test Baller test 0 cal/min with ft drawdown after	the the
Bailer test 0 gal/min with ft drawdown after Airtest 30 gal/min with stem set at 100 ft for 2 hrs	hr (Signed) Lic No 2081
Artesian flow 0 gal/min Date	
Temperature of water Was chemical analysis made? YES	Based on form ECL 050-1-20 (2/93)**f-1329- by Speed Systems Cor

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* KESOUKCE PROTECTION WEL	L KEFUKI CURRENI Notice of Intent No. E004598
(SUBMIT ONE WELL REPORT PER WELL INSTALLED)	# 428754 Notice of Latent No. <u>2004398</u>
Construction/Decommission ("x" in circle)	Type of Well ("x" in circle)
Construction	K Resource Protection
O Decommission ORIGINAL INSTALLATION Notice	O Geotech Soil Boring
188544 of Intent Number	Property Owner Murrey's Disposal Compan
Consulting Firm Klain Felder	Site Address 4622 Toth Ave E
	City Fife County: Pièrce
Unique Ecology Well ID Tag No:B3	
WELL CONSTRUCTION CERTIFICATION: I conservated and/or accept	Location SW14 SW14 Sec 17 T-3 20NR 4 Entered
 responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are 	Lat/Long (s. t. r La: Deg Lat Min/Sec
true to my best knowledge and belief	still REQUIRED) Long Deg Long Min/Sec
Di Daller DEcgineer DTrainee Name Ariai) Todd Klein	Long Mus/Sec
Drilles Engineer/Traince Signature AOME	Tax Parcel No.
Driller or Traince License No. 27/2	Cased or Uncased Diameter Static Level
	Work/Decommission Start Date 9-21-05
If trainee, licensed driller's	Work/Decommission Completed Date 9-21-05
	Work Deconstrussion Completed Date
Construction/Design Well Data	Formation Description
	· +1 /2 · · · · · · ·
	silty fine sand
Drove a retractable staint	
Gscreen down to depth and	collected a $0-16^{-1}$
water sample	8
	1
Boring depth: 16	
Spreened: 16-14	9
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	(SUBMIT ONE WE	ELL REPORT PEI	ECTION WEI R WELL INSTALLED)	A7 8756	Notice of Intent No. E 004598
	Construction Decom	nmission ("x" in cire	tle)		Type of Well ("x" in circle)
	O Decommission Of	RIGINAL INSTALL	ATION Notice		 Resource Protection Geotech Soil Boring
8	188543	of Intent Number_	1	Рторетту Очта	Murrey's Disposal Compa
	Consulting Firm	Klein telo	ler	- Site Address	4622 Joth Ave E
	Unique Ecology Well	D			ife County: Pièrce
	Tag No:	<u></u>			
	WELL CONSTRUCTION C	ERTIFICATION: Lea	nstructed and or accept ompliance with all Washington		14 <u>SW114</u> Sec 17 Two 20NR 4 EWM
1.00	well construction standards true to my best knowledge ar	Materials used and the l	information reported above are	Lat/Long (s. t. i still REQUIRE:	
	V Dritter 🗆 Ecsineer 🗆 Tr		Todd Klein		Long Deg Long Min/Sec
	Drillen Engineen Trainse S	1 6 4 4		Tax Parcel No.	
	Driller or Traince Litense		2712	Cased or Uncas	ed Diameter Static Level
() Work/Decommi	ssion Start Date 9-21-05
	If trainee, licensed drille Signature and License m		<u> </u>		ssion Completed Date 9-21-05
		· · · · · · · · · · · · · · · · · · ·			
	Construction	/Design	Well Data		Formation Description
N.					silty fine sand
5	0.00	Gs	Drove a retractable stair creen down to depth and rater sample		0-16
			Boring depth: <u>//</u>	<u>, </u>	
)			Screened: <u>16⁻</u>	<u>'9</u> =	
			lemoved all rods from be teckfilled with bentonite	oring and	
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Construction/Decommission ("x" in circle)	出4287587	Type of Well ("x" in circle)
Construction O Decommission ORIGINAL INSTALLATION Notice		 Resource Protection Geotech Soil Boring
188542 of Intent Number Consulting FirmKlein felder	Ргорегту Очте	Murrey's Disposal Comp
		4622 . TOTH AVE E .
Unique Ecology Well ID Tag No:		fe County: <u>Pièrce</u>
A'ELL CONSTRUCTION CERTIFICATION: I constructed and/or accept esponsibility for construction of this well, and its compliance with all Washington	Location <u>SW</u> J	14 5/1/14 Sec 17 THO 20NR 4 ENT
veli construction standards. Materials used and the information reported above are rue to my best knowledge and belief	Lat/Long (s, t, i still REQUIRE	
Driller DEugineer DTraince Name (Anni) Todd Klein	_	Long Deg Long Min/Sec
miller.Engineer/Trainee Signature 2010 2		
Priller or Trainee License No. 27/2	<u> </u>	ed Diameter Static Level6
f trainee, licensed driller's	1	ission Start Date 9-21-05
ignature and License 110.	Work/Decommi	ssion Completed Date 9-21-05
Construction/Design Well Data	2	Formation Description
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		silly fine sand
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O D C C Correctable state		0-16
water sample		
		2
Boring depth:	6	
Screened: 16-	19 .	DEP FIS
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Removed all rods from I	boring and	HE A
backfilled with bentonite		
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SUBMIT ONE WELL REPORT PER WELL INSTALLED		Notice of Intent No. A 71498
 Construction/Decommission ("x" in circle) Construction Decommussion ORIGINAL INSTALLATION Notice 	H428750	Type of Well ("z" in circle) M- Resource Protection O Geotech Soil Boring
188541 of Inter E004598 Consulting Firm Klein Felder	Property Owner Site Address	Murrays Disposal Tempan 4622 Toth Ave E
Unique Ecology Well ID Tag No:	C:ryFil	County: <u>Pièrce</u>
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materia's used and the information reported above are the to my best knowledge and belief Dollier Different Differen Name (Minit) Todd Kilein Doller Engineer Trainee Signature Doller or Trainee License No 271,2 If trainee, licensed driller's Signature and License no.	LevLong (s. t. r sull REQUIRED Tex Percel No Cased on Uncase Work Decommiss	Long Deg Long Nin/Sec
Constructor/Design Wer Dat	3	Formation Description
Contractive a retractive sta		silty fine sand
water sample	16	
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5	SUBMITONE WELL REPORT PER WELL INSTALLED)	E REF REF OND	Notice of Intent No. A 714	198
	Construction/Decommission ("x" in circle) O Construction	#428759	Type of Well ("x" in circle) S- Resource Protection	
	S Decommission ORIGINAL INSTALLATION Notice		O Geotech Soil Boring	
	188540 of Intent Number E 604598	Property Owner	Murreys Dispesal 10	A1.0.1.0.2.1
	Consulting Firm Klein Felder	Site Address	4622 TOTH AVE E	<u> </u>
	Lielane Fasiazy Well (0)		Le County: Pièrce	
	Tag No B2			- 2-
	WELL CONSTRUCTION CERTIFICATION I constructed and or accept		SWILL SEE 17 THE 20NR 4	01 01
	 responsibility, for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are 	Tractors (see the second se		
	The is my best less ledge and belief Minarian Differences Directory Todd Klein	still REQUIRED)	Long Deg Long Min/Se	c :
		. <u> </u>		
	Driller Engineen Trainer Signature 2001	🗁 Cased or Unitation	Diameter Static Level	16
	Driller of Trainee Lizense No 2712	·	ion Sizit Date 9-21-05	
	If trainee, licensed driller's		ion Completed Date <u><u><u>721-0</u></u></u>	
	Signature and License no.		ion Completed Date # 7 - 2	5
	Constructory/Cesign We'l Ce	eta	Formation Description	
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KESUUKUE, PKUIEUTIUN WE * *** '(SUBMIT ONE WELL REPORT PER WELL INSTALLED)	Notice of Intent No. H 11778
 Construction/Decommission ("x" in circle) 	H 428 761 Type of Well ("x" in circle)
O Construction	A Resource Protection
Decommission OPICINIAL INSTALLATION Modes	O Geotech Soil Boring
188539 of Intern Number E004598	v +1
Consulting Firm Klein Felder	Property Owner Murrey's Disposal Compan
	_ Sile Address 4622 . Toth Ave E
Unique Ecology Well ID Tag No:	City <u>Fife</u> County: <u>Pierce</u>
	Location Sil 14 Stal Sec 17 Two 20NR 4 END
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington	
well construction standards. Materials used and the information reported above are mue to my best knowledge and belief	LavLong (s. t. r Lat Deg Lat Min/Sec
Diller DEsgineer DTrainee Name Anni)Todd Klein	sull REQUIRED) Long Deg Long Min/Sec
	Tax Parcel No
Driller Engineer/Traince Signature JOME	Cased or Uncased Diameter $2^{\prime\prime}$ Static Level $16^{\prime\prime}$
Driller Or Trainee License No. <u>27/2</u>	
If trainee, licensed driller's	Work/Decommission Start Date
Signature and License no.	Work/Decommission Completed Date 9-21-05
Construction/Design Well Dat	3 Formation Description
	silty fine sand
Contractor and the state of the	e jolang staal
O C P C C C C C C C C C C C C C C C C C	
Standard Standard Water sample	
Boring depth:	6
Screened: 16-	
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RESOURCE PROTECTION	ON WELL R	EPORT		RRENT	0	
(SUBMIT ONE WELL REPORT PER WELL	INSTALLED) 🚽	:469724	Notic	e of Intent No	. <u>A 128</u>	282
Construction/Decommission 25	3880			Type of Wel	1	
Construction				X Resource	Protection	
Decommission ORIGINAL INSTALLATIO	N Notice			Geotechni	ical Soil Boring	
of Intent NumberE	006664	Property Owne	er		r Buiding System	5
		Site Address		4609	70th Ave E	
Consulting Firm Arcadis, Gera	ghty & Miller	City	Fife		County P	erce
Unique Ecology Well ID Tag No.		Location	1/4_ SW	1/4 SW Sec	<u>17 Twr 20N R</u>	4E or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and		- Lat/Long (s,t,r	Lat Deg	x	Lat Min/Sec	
construction of this well, and its compliance with all Washington w	vell construction standards	still Required)			_	
Materials used and the information reported above are true to my	best knowledge and belief	Tax Parcel No.				
Driller x Trainee Name (Print)	Elijah Floyd	_				
Driller/Trainee Signature	n Flored	Cased or <u>Uncased</u>	Diameter	L	Static	Level <u>8'</u>
Driller/Trainee License No2	842T	Work/Decommis	ion Start Da	te	2/15/07	
If trainee, licesned drillers'	<u></u>					
Signature and License No.	330	Work/Decommis	ion Complet	ed Date	2/15/07)
Construction/Design	Well Da	ata W07-131		Fo	rmation Descriptio	<u>n</u>
	CONCRETE SUF	RFACE SEAL	FT	0 5:17s	- <u>8'</u> H light Brown	T נ
	BACKFILL	10' Bentenite Cl	FT	0 Siits +	- 10' F sand light	т Э ^{~2} 7
	DEPTH OF BORING	12'	FT	Dav K zj	- 12' F Mali and Fine May Me silts FEB 2720 Washington St Spartment of Ec	ED

RESOURCE PROTECTION WELL R (SUBMIT ONE WELL REPORT PER WELL INSTALLED)		IRRENT ice of Intent No. <u>A 128282</u>
Construction/Decommission 253879	469726	Type of Well
		X Resource Protection
Decommission ORIGINAL INSTALLATION Notice	_	Geotechnical Soil Boring
of Intent Number E 006664	Property Owner	Premier Buiding Systems
	Site Address	4609 70th Ave E
Consulting Firm Arcadis, Geraghty & Miller	City Fife	County Pierce
Unique Ecology Well ID Tag No	Location 1/4 SW	<u>EWM</u> / 1/4 <u>SW Sec 17</u> Twr. 20N R <u>4E</u> or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for	Lat/Long (s,t,r Lat Deg	x Lat Min/Sec x
construction of this well, and its compliance with all Washington well construction standards	still Required) Long De	
Materials used and the information reported above are true to my best knowledge and belief	Tax Parcel No.	`
Driller x Trainee Name (Print) Elijah Floyd		
Driller/Trainee Signature	Cased or Uncased Diameter	r2" Static Level
Driller/Trainee License No. 2842T	Work/Decommision Start I	Date 2/15/07
If trainee, licesned drillers'		24540
Signature and License No.	Work/Decommision Compl	leted Date 2/15/07
Construction/Design Well Da	ta W07-131	Formation Description
CONCRETE SUR	FACE SEAL <u>2'</u> FT <u>10'</u> FT	<u>0 - 6'</u> FT Silts + sevels light Bouin <u>0 - 10'</u> FT silts + sends some small
	<u>Bentoni te chip</u> s	Rocks up to 2"in, light grey <u>0 - 12</u> FT Clean sands Darkgrey
DEPTH OF BORING	<u> 2'</u> ft	RECEIVED FEB 27 2007 Washington State Department of Ecology
Scale 1" = P	age of	ECY 050-12 (Rec=v 2/01)

RESOURCE PROTECT (SUBMIT ONE WELL REPORT PER WE		EPORT		RRENT ce of Intent No.	A le	78282
Construction/Decommission	253878	# 469728		Type of Well		
Construction	200010			X Resource Pr	rotection	
Decommission ORIGINAL INSTALLA				Geotechnica	al Soil Boring	
of Intent Number 🖉	006664	Property Owner	r		Buiding System	ems
Consulting Firm Arcadis, G	araghty & Miller	Site Address	Fife		Oth Ave E	Pierce
		City	rne		ounty	EWM
Unique Ecology Well ID		Location	1/4 SW	1/4 SW Sec 17	7 Twr. 20N	
Tag No		-				WWM
WELL CONSTRUCTION CERTIFICATION: I constructed construction of this well, and its compliance with all Washing	,	Lat/Long (s,t,r 3		X		X
Materials used and the information reported above are true to						CX
Driller x Trainee Name (Print)	Elijah Floyd	Tax Parcel No.				
Driller/Trainee Signature	in Floyd	Cased or Uncased	Diameter	2*	Sta	tic Level 🔗 🖊
Driller/Trainee License No.	2842T	- Work/Decommissi	on Start De	ate	2/15/07	7
If trainee, licesned drillers'	-t		on Stat De		2/13/01	/
Signature and License No.	2 \$ \$0	Work/Decommisio	on Comple	ted Date	2/15/0	7
Construction/Design	Well D	ata W07-131		Form	ation Descrip	otion
	- CONCRETE SUF	RFACE SEAL	FT	<u> </u>	6' ;hr Brow.	FT N
	- BACKFILL	10' Bestenite ch	FT	0 Siits +g	<u>10'</u> Sawel lig.l	FT ht Brauns
	3			,	ECEI FEB 27	VED 2007
	DEPTH OF BORING		_FT		partment of	Ecology

RESOURCE PROTECT (SUBMIT ONE WELL REPORT PER WE		EPORT		RRENT ce of Intent No.	AL	28282
Construction/Decommission		# 469730	2	Type of Well		
[]Construction	253877			X Resource Pr	otection	
Decommission ORIGINAL INSTALLAT	TON Notice			=	al Soil Boring	
of Intent Number	5006664	Property Own	ег		Buiding Syste	
E.	,	Site Address			0th Ave E	
Consulting Firm Arcadis, G	eraghty & Miller	City	Fife	Co	ounty	Pierce
Unique Ecology Well ID Tag No.		Location	1/4 SW	1/4 SW Sec 17	Twr. 20N	EWM R <u>4E</u> or WWM
WELL CONSTRUCTION CERTIFICATION: 1 constructed	and/or accept responsibility for	_ Lat/Long (s,t,r	Lat Deg	x	Lat Min/Sec	X
construction of this well, and its compliance with all Washingt	on well construction standards	still Required)	Long Deg	x		x x
Materials used and the information reported above are true to a	ny best knowledge and belief	Tax Parcel No.				
Driller x Traince Name (Print)	Elijah Floyd	_				
Driller/Traince Signature	2842T	Cased or Uncased	<u>l</u> Diameter	2"	Stat	ic Level X
	20421	Work/Decommis	tion Start Da	ite	2/15/07	1
If traince, licesned drillers'	530	West Deserves in			alictor	51
		1	ion Complet	ted Date	2/15/07	
Construction/Design	Well Da	ata W07-131		Form	ation Descrip	tion
	- CONCRETE SUR	EFACE SEAL	FT	0 - Silits lig	-7' ht Brown	FT J
	– BACKFILL	<u>10'</u> Benitanita Chi	FT	o silty saw with laye	10 uds light uns of Bro	FT Freg v
				Savids No Der K zwe	12' silts cle 7 ECEI FEB 272	VED
	DEPTH OF BORING	12	_FT	W Depa	Vashington a artment of F	

RESOURCE PROTEC (SUBMIT ONE WELL REPORT PER WE		REPORT		RENT	1 1 - 8 - 8 - 1
Construction/Decommission		# 469 732		of Intent No.	128 drad
	253876		-	Type of Well X Resource Protectic	n
Decommission ORIGINAL INSTALLA	TION Notice		<i>د</i> ۲		
of Intent Number	TION Notice	Property Own	er	Geotechnical Soil Premier Buidin	_
	.000064	Site Address		4609 70th Av	
Consulting Firm Arcadis, G	eraghty & Miller	City	Fife	County	
Unique Ecology Well ID Tag No		Location	1/4_SW	1/4 <u>SW</u> Sec <u>17</u> Twr	EWM 20N R 4E or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed	and/or accept responsibility for	 Lat/Long (s,t,r	Lat Deg	x Lat N	
construction of this well, and its compliance with all Washing	ton well construction standards	still Required)	Long Deg	x Long	Min/Sec x
Materials used and the information reported above are true to	my best knowledge and belief				
Driller x Trainee Name (Print)	Elijah Floyd				
Driller/Trainee Signature		Cased or <u>Uncases</u>	Diameter _	2"	Static Level
Driller/Trainee License No.		Work/Decommis	ion Start Date		2/15/07
If trainee, licesned drillers'	2330	Work/Decommis	ion Completed	i Date 2/	15/07
Construction/Design	Well 1		-	Formation I	
	- CONCRETE SU BACKFILL	IRFACE SEAL 2' <u>14</u> <u>Bestewite chi</u>	FT	0 - 8' Fine silits 1 0 - 16' Silits and san gurey in color 0 - 0 - FEB Washir	FT ight Brows

RESOURCE PROTECTI (SUBMIT ONE WELL REPORT PER WELL	INSTALLED)			RRENT	A 128282
Construction/Decommission	\$	1469734		-	1110000
Construction 25	3875			Type of Well	- 4
				X Resource Prote	
Decommission ORIGINAL INSTALLATIC)N Notice	December 0		Geotechnical S	
of Intent Number <u>E</u>	00 6664	Property Owne	er		ding Systems
Consulting Firm Arcadis, Gera	ighty & Miller	Site Address City	Fife	4609 70th	
	Bridy de Filmer	<u> </u>	A TRU		ty Pierce
Unique Ecology Well ID		Location	1/4 SW	1/4 SW Sec 17 T	Wr. 20N R 4E or
Tag No					WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and	/or accept responsibility for	Lat/Long (s,t,r	Lat Deg	<u> </u>	at Min/Secx
construction of this well, and its compliance with all Washington	well construction standards	still Required)	Long Deg		ong Min/Sec x
Materials used and the information reported above are true to my	best knowledge and belief	Tax Parcel No.			
Driller x Trainee Name (Print)	Elijah Floyd				
Driller/Traince Signature	<u> loc d</u> 842T	Cased or <u>Uncased</u>	Diameter	2"	Static Level
Driller/Trainee License No 2	8421	Work/Decommis	ion Start Da	ite	2/15/07
If trainee, licesned drillers'	1	<i>~ vasaadd</i>		· · · · · · · · · · · · · · · · · · ·	
Signature and License No.	68	Work/Decommisi	ion Complet	ted Date Z	115/07
Construction/Design	Well Dat	a W07-131		Formatic	on Description
	CONCRETE SURI	PACE SEAL 2' 8' Zentewitz ch:	FT	<u>o</u> <u>i</u> Fine sitts o Derker grey <u>o</u>	FT FT ETVED
	DEPTH OF BORING	10	FT	Washing	2 7 2007 ston State t of Ecology

SUBMIT ONE WELL REPORT PER WELL	INSTALLED)	# 469736	Notice	e of Intent N	0	ε ∞6 - Ε 00664	×66
Construction/Decommission		-		Type of We	201		
X Construction	53874			XResource	Protection		
Decommission ORIGINAL INSTALLATIO	ON Notice			Geotechr	nical Soil B	oring	
of Intent Number		Property Owner			er Buiding	-	
		Site Address		460	9 70th Ave	E	
Consulting Firm Arcadis, Ger	aghty & Miller	City	Fife		County _	Pierc	
Unique Ecology Well ID Fag No.		Location 1/	4 SW	1/4 SW Sec	<u>17</u> Twr 2	20N R 4E	ev or W
VELL CONSTRUCTION CERTIFICATION: 1 constructed and		– Lat/Long (s,t,r La	at Deg	x	Lat Mi	in/Sec	
onstruction of this well, and its comphance with all Washington		still Required) La				Min/Sec	
laterials used and the information reported above are true to my	best knowledge and belief	Tax Parcel No.			-		
Driller x Trainee Name (Print)	Elijah Floyd						
Driller/Traince Signature	in Flord	Cased or <u>Uncased</u> D	liameter	2*		Static Leve	1
Driller/Trainee License No.	2842T	_					
	7	Work/Decommision	1 Start Dat	te	2	2/15/07	
f trainee, licesned drillers'	522	-			-	و س	
ignature and License No.	330	Work/Decommision	(Complete	ed Date	ZI	15/07	
Construction/Design	Well I	Data W07-131		F	ormation D	escription	
	- CONCRETE SU	RFACE SEAL 2' 10' Bertewite chi	_FT _FT gs		- 8' light - 10' t saud	FT Brown FT I:zhtzr	cy.
				0 Siand s Dark	- 12' small and gorcy sic	FT Finc silts	
	DEPTH OF BORIN	g <u>12'</u>	FT		FEB Washin	EIVE 272007 gton State	

RESOURCE PROTECTION WELL RI (SUBMIT ONE WELL REPORT PER WELL INSTALLED)			RENT e of Intent No.	E 006664-
CONSTRUCTION/Decommission	469738		Type of Well	
X Construction 253873			X Resource Protection	
Decommission ORIGINAL INSTALLATION Notice		! 	_	
of Intent Number	Property Owner	l	Geotechnical Soil E Premier Buiding	•
	Site Address		4609 70th Ave	
Consulting Firm Arcadis, Geraghty & Miller	City	Fife	County	
				EWM
Unique Ecology Well ID	Location 1/	/4 <u>SW</u>	1/4 SW Sec 17 Twr	20N R 4E or
Tag No				wwm
WELL CONSTRUCTION CERTIFICATION: 3 constructed and/or accept responsibility for	Lat/Long (s,t,r La			in/Sec x
construction of this well, and its compliance with all Washington well construction standards	still Required) Lo	ong Deg	x Long	Min/Sec x
Materials used and the information reported above are true to my best knowledge and belief	Tax Parcel No.			
Driller x Trainee Name (Print) Elijah Floyd	_			
Driller/Trainee Signature Signature Driller/Trainee License No. 2842T	Cased or <u>Uncased</u> D)iameter	2"	Static Level 7
Driller/Trainee License No 2842 T	Wet Deserve initial	- 64-4 D-4		5.11.5.10.5
If traince, licesned drillers'	work/Decommision	n Start Dai	te	2/15/07
Signature and License No.	Work/Decommision	n Complete	ed Date 2/1	5/07
Construction/Design Well Da	ta W07-131		Formation D	Description
CONCRETE SUR	FACE SEAL 2' 10' Benton: te chij	_FT _FT 25	0 - 6' Silts + sands 0 - 10 Silts + sands s Rocks up to 2 grey 0 - 12 Clean sands	FT FT
DEPTH OF BORING	12'	FT	RECE FEB 2 Washingto Department of	7 2007

RESOURCE PROTECTIO (SUBMIT ONE WELL REPORT PER WELL 1	NSTALLED)	EPORT #469740		RRENT c of Intent N	lo	0066	664
Construction/Decommission		•		Type of We			
X Construction	25387	2		XResource			
Decommission ORIGINAL INSTALLATION	N Notice			Geotechr	nical Soil Boring		
of Intent Number		Property Owne	r	Premi	er Buiding Syst	ems	
		Site Address		460	9 70th Ave E		
Consulting Firm Arcadis, Gerag	ghty & Miller	City	Fife		County	Pierce	
Unique Ecology Well ID Tag No.		Location	1/4 <u>SW</u>	1/4 SW Sec	17 Twr 20N	R <u>4</u> E	EWM or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and/c	ar accept responsibility for	Lat/Long (s,t,r	Lat Deg	T	Lat Min/Sec		
construction of this well, and its compliance with all Washington w		still Required)					
Materials used and the information reported above are true to my b							<u> </u>
Driller X Trainee Name (Print)	Elijah Floyd	Tax Parcel No.					
Driller/Trainee Signature		Cased or Uncased	1 Diameter	2"	Sta	tic Level	g '
	42T					-	
16-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Work/Decommis	tion Start Da	ite	2/15/0	7	,
If traince, licesned drillers'Signature and License No.	330	Wald	ing Complex	10	9/15/0	2	
	> >0	work/Decommis	ion Complet	ted Date	2/15/0	/	
Construction/Design	Well Da	ata W07-131		F	ormation Descrip	otion	
	CONCRETE SUR	EFACE SEAL	FT	0 Silts	- 6' light Brow	FT N	
	BACKFILL	10' Bentonite Cl	FT	0 Silts	- 10' + Sawed lig	FT h+ Вна	تىر.
				grey	- 12' ekan Ver		
					RECEN	VEĽ)
					FEB 271	2007	
	DEPTH OF BORING	12'	FT	D	Washington epartment of	State Ecology	y
Scale 1" =		Page	of		ECY 050-		01)

SUBMIT ONE WELL REPORT P	ECTION WELL RI			RENT e of Intent N		00664
Construction/Decommission		469742		Type of We	 ell	
X Construction	253871			XResource		
Decommission ORIGINAL INS	TALLATION Notice				ical Soil Boring	r
	per	Property Owne	Г		er Buiding Syst	•
5		Site Address			9 70th Ave E	
Consulting Firm Arc	adis, Geraghty & Miller	City	Fife		County	Pierce
Jnique Ecology Well ID Fag No.		Location	1/4 SW	1/4 SW Sec	17 Twr 20N	R 4E or WWM
VELL CONSTRUCTION CERTIFICATION: 1		Lat/Long (s,t,r	Lat Dcg	X	Lat Min/Sec	x
onstruction of this well, and its compliance with	all Washington well construction standards	still Required)				ec x
faterials used and the information reported above	e are true to my best knowledge and belief	Tax Parcel No.			_	
Driller x Trainee Name (Print)	Elijah Floyd					
Driller/Trainee Signature	Eliza Hoyd	Cased or Uncased	Diameter	2"	St	atic Level 🙎
Driller/Traince License No.	284ŹT	Work Deserves	ion Start D	140	2/15/0	לו
f trainee, licesned drillers'	6D		ION STAR DA	iic	2/13/0	
ignature and License No.	2330	Work/Decommis	ion Comple	ted Date	2/15/07	
Construction/Design		j ata W07-131	•		ormation Descri	
Construction/Design		atu 1707-131		<u>г</u>	Simation Desen	
	CONCRETE SUR	2' <u>2'</u> <u>10'</u> <u>Bewtowite</u> Ch	FT FT	0	- 7' light Brow - 10 Sands ligh layers of B	FT
	DEPTH OF BORING	17	, FT	0 Sands Dan K	- 12' No silts a grey RECE FEB 27 Washingto Department o	FT 2kan IVED 2007 on State

RESOURCE PROTECTION (SUBMIT ONE WELL REPORT PER WELL INSTA		CURRENT Notice of Intent No.	E 00664
Construction/Decommission		Type of Well	
X Construction 2538	0	X Resource Protection	
Decommission ORIGINAL INSTALLATION Noti		Geotechnical Soil Bo	aring
of Intent Number	Property Owner	Premier Buiding	0
	Site Address	4609 70th Ave	
Consulting Firm Arcadis, Geraghty &	filler City F	Fife County	Pierce
Unique Ecology Well ID Tag No		SW 1/4 SW Sec 17 Twr 2 Deg Lat Min	20N R 4E or WWM
construction of this well, and its compliance with all Washington well constr			Ain/Sec x
Materials used and the information reported above are true to my best know			
Driller Trainee Name (Print)			
Driller/Traince Signature Shin Floyd	Cased or Uncased Diam	noter <u>2</u> "	Static Level
Driller/Trainee License No 2942T			
If traince, licesned drillers'	Work/Decommision Sta	art Date2	/15/07
Signature and License No.	Work/Decommision Co	ompleted Date Z/I.	5/07
Construction/Design	Well Data W07-131	Formation De	escription
	RETE SURFACE SEAL	T 0 - 8' Fine silits 1; T 0 - 16' Silts and sand guey in color PEC FEB Washi	FT Shit Brown
Scale 1" =	Page of	EC'	Y 050-12 (Rec=v 2/01)

RESOURCE PROTECTI (SUBMIT ONE WELL REPORT PER WELL	INSTALLED)			RRENT ce of Intent No	o	006664 E-00664-
Construction/Decommission		469746		Type of Wel		
X Construction 25	3869			XResource		
Decommission ORIGINAL INSTALLATIO	N Notice			—	ical Soil Bor	ina
		Property Owne	er		r Buiding Sy	
·		Site Address			70th Ave E	
Consulting Firm Arcadis, Gera	ghty & Miller	City	Fife		County	Pierce
Unique Ecology Well ID Tag No		Location	1/4 _SW	1/4 SW Sec	<u>17</u> Twr <u>20</u>	NR 4E or WWM
WELL CONSTRUCTION CERTIFICATION: 1 constructed and		Lat/Long (s,t,r	Lat Deg	x	Lat Min/	Sec
construction of this well, and its compliance with all Washington w	vell construction standards	still Required)	Long Deg	x	Long Mir	
Materials used and the information reported above are true to my	best knowledge and belief					
Driller x Traince Name (Print)	Elijah Floyd					
Driller/Trainee Signature	Flacd	Cased or Uncase	Diameter	"2"		Static Level 7
Driller/Trainee License No2	842T			_		
If trained dollard	2	Work/Decommis	sion Start Da	ite	2/1	5/07
If trainee, licesned drillers'	68	Work/Decommis	ion Complet	ted Data	7/10	100
Construction/Design	Well Dat	ta W07-131		Fo	rmation Des	cription
	CONCRETE SUR	FACE SEAL	FT	0 Fine Si	- 6' ;1ts/me	_ FT diun Brown
	BACKFILL	8' Beutonvite ch	FT		- 10' Its and s grey	FT Sands
				0	<u>×</u>	FT
	DEPTH OF BORING	10	FT		FEB Washir	27 2007 ngton State
			r I			

1 574562

331743 **RESOURCE PRO** WELL REPORT The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report. START CARD'NO. RYGIYL - Fife PROJECT NAME: 1+5 COUNTY: Pie 457625 WELL IDENTIFICATION NO. LOCATION: SALVA SW 14 Sec 17 TWA 20NA 4E DRILLING METHOD: STREET ADDRESS OF WELL: 8105. 48ths Enc **FiL** DAILLER: Massa 186 Y,E WATER LEVEL ELEVATION: **GROUND SURFACE ELEVATION:** SIGNATURE: 9/5 \$20100 CONSULTING FIRM; INGTALLED: 00 REPRESENTATIVE: DEVELOPED: 8/1 9 AS-BUILT WELL DATA FORMATION DESCRIPTION D Water was sampled throws a retractable stainless stal screen set at 201, 30', 40'; \$ 50' 665 Not observed the screen was removed decontraninated and redriven to the next 30 death. ; Wellinus removed a RECEIVED 10 backfilled w OCT 1 2 2000 DEPARTMENT OF SECONDEN WELL DRIVERS LIGT 50 2 SCALE: 1" -PAGE OF ECY 050-12 (Rev. 11/89)

Department of Ecology Well Log Image System

\$ 574563 331742 reso L REPORT ON WFI PROTECT The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report. START CARD NO. RYGIYL PROJECT NAME: THS - File A 51625 COUNTY: PI WELL IDENTIFICATION NO. LOCATION: SALVA SW 14 Sec 17 TWO 20NR 45 DRELLING METHOD: Niro STREET ADDRESS OF WELL: 48ths Pust 8105 Enc Massa 60 DRILLER: 7 86 5 TEG WATER LEVEL ELEVATION: FIPM: Abt Swinged SIGNATURE: **GROUND SURFACE ELEVATION:** CONSULTING FIRM: 8/29/00 NSTALLED: 8/29/00 REPRESENTATIVE: DEVELOPED: AS-BUILT WELL DATA FORMATION DESCRIPTION Water was sampled throws a retractuble stainless stal screen set at. 20', 30', 40', 1'50'665 not observed the screen was removed decontaminated and redriven to the next 30 death 3 Well was removed an RECEIVED 10 backfilled w/1 OCT 1 2 2000 DEMAIL ACTION ECOLOGY WELL DRILLING UNIT 50 SCALE: 1" = i n PAGE OF ECY 050-12 (Rev. 11/89)

Department of Ecology Well Log Image System

# 598212	
10NITORING WELL REPORT	Well ID# 88K590 Start Card # RED3427
348141	Start Card # <u>RE03427</u>
I) OWAVER/PROJECT	(6) LOCATION OF WELL By legal description: County ICFCC Letitude Longitude
ALL CATUOT FITR	County PIOPCO Lettrude Longitude
In The State WA Zip 98424	Township DON (N or S) Range TE (E or W) Section 17
Ity Life State WA Zip 984 24	SW 1/4 of DW 1/4 of above section. Street address of well location TOth Auf Ed 45thStCt
2) TYPE OF WORK	Life WIT 90 Taky
New construction Alteration (Repair/Recondition)	Tax lot number of well location Rodoway Rou
Conversion Deepening Abandoniment	. 0
	(T. CTATIO WATED I CVEL
3) DRILLING METHOD	(7) STATIC WATER LEVEL: Ft below (and surface Date
Rotary Air Rotary Mud Cable Section Auger Other	Arcsian Pressurelb/sq in Date
	(8) WATER BEARING ZONES:
4) BORE HOLE CONSTRUCTION:	$\chi = \gamma$
special Standards X Depth of Completed Well 19 ft.	Depth at which water was first found Est. Flow Rate SWL
	From To Est. Flow Rate SW L
Vault Special Standards Water-tight cover	
Surface flush vault	
TO Locking cap	
ft b Casurg diameter 2 Casurg diameter 2	
Matenal PVC	(9) WELL LOG: Ground Elevation
Weldod Threaded Glued	Material From To SW
Seal Store	
	1
o To Barding Barding Material Bentonity	
T CASO Amount Chips	- <u>SIH</u> 019
Grout weight	
Borehole diameter M	
) Din from ft to	
10.5	
Filter Pageat State Pageat Bentonne plug at least 3 ft	thick JUN U Z ZUUS
	Washington State
8 ft Doord B Doord Material	Department of Ecolo
19 * Cool Filter pack	
A San Materia Col Dichos	and Date started 5 27 09 Completed 5 27 09
Gera Gread Suze 10120	WELL CONSTRUCTION CERTIFICATION.
K 20.0.9	I constructed and/or accept responsibility for construction of this well, and its
(5) WELL TESTS:	compliance with all Washington well construction standards. Materials used and the information paported above are true to my best knowledge and belief
Pump Bailer Air Flowing Artesian Permeshility YieldGPM	Type or Print Names Ja word Thom DSO Panse No 2823
PermeabilityYieldGPM ConductivityPH	Trainee Name License No
Temperature of water OF/C Depth artesian flow found f	P Drilling Company HOLOCERE Drilling The
Was water analysis done?	(Signed) License No 2823
By whom?	8 100 C Common 179 9837
Remarks	Address 10421 1000 RDE CLUMOD WI 1000 Registration No HOLOODTOHYKH Date La 109
Name of Supervising Geologist/Engineer	



10NITORING WEI	L REPORT	Well I	D# BBK59					
348140	1		Start Card # KEO342					
I) OWNER/PROJECT	WELL NO	(6) LOCATION County	OF WELL By les	gal description:	177			
daress 5411 2310	SFF	Township don	(N or S) Range	(E or W) Section.	/			
in hite	State WA Zip 98424	Street address of well		AVEE 4 45t	hstcte			
2) TYPE OF WORK		Life W	A98424	1	+			
New construction	Alteration (Repair/Reconduction) Deepening Abandonment	Tax lot number of we	ii locatron	iduour kou				
3) DRILLING METHO	D	(7) STATIC WA						
CROBENT AIR	Cable		below land surface ib/sq_u					
4) BORE HOLE CONS		(8) WATER BE	ARING ZONES:					
Yes No		Depth at which water						
special Standards	Depth of Completed Weli <u>24</u> ft.	From	To	Est. Flow Rate	SWL			
Vault []		rita						
Special Standards	Water-ught cover							
то	Surface flush vault	ļ						
	Locking cap	<u> </u>						
(C	Casing diameter	(9) WELL LOG						
	Material <u>PVC</u> Welded Threaded Glued		ound Elevation					
			Material	From	To SWL			
Seal 500		·	· · · · · · · · · · · · · · · · · · ·		-			
ft [0.0 g0]	Weil Seal Materia)						
12 TO 000	Amount Nith		<u>+</u>		+			
12 1 01 0			ļt	a				
	Grout weight							
	Berebole diameter OL							
	from ft to J	· · · · · · · · · · · · · · · · · · ·			EIVED			
10.0	10 IL from ft to	_ n		11 16.1	0 2 2000			
DanD-sD-s	Bentonste plug at least 3	ft thick		JUN	0 2 2000			
Filter	Screen ON OLA				ngton State			
B A 80.9	Screen An PVC			Departme	ent of Ecology			
24 1 1000	Slot size	·		76				
	Filter pack	Date started	5/27/09	completed 507	09			
0.00	Materil DNACD			- / /				
NO.0.4	Size DIOO	Loopstructed 4pd/	UCTION CERTIF	for construction of this well,	and its			
(5) WELL TESTS:		comoliance with a	III Washington well con	struction standards. Materia ue to my best knowledge an	is used			
		Type or Print Name	1 1-1	nt DSOfpense No 28	22			
Permeability	Yield GPM			License No				
Conductivity Temperature of water	OF/C Depth artesian flow found	ft Trainee Name	Holor		<u> </u>			
Was water analysis done'?	D XOI DNO	Driting Company	I VIOLAE	Drilling Th	223			
By whom'?		(Signed)	- Mg		08272			
Depth of strang at be analy Remarks:	zed Fromft to	Address 012	TOOD RDE	Edgusod WA	70.012			
		Registration No	HOLOCOTO	14KH Date				
Name of Supervising Geol	ogist/Engineer							

10NITORING WELL REPORT	# 598 210	Well]	ID#	92	
010101	Z1p 984 24	(6) LOGATION County LIGICE Tewnship 201	OF WELL By la	gal description:	
2) TYPE OF WORK	pair/Recondution)	Li Co In	A98420	idway kou	
3) DRILLING METHOD	Cabie	Artesian Pressure	below land surface		
4) BORE HOLE CONSTRUCTION: Yes No	o.l	(8) WATER BE	ARING ZONES		
Special Standards Depth of Comple	eted Well 24 ft.		То	Est. Flow Rate	SWL
Vault 🕅 💦 🕅		From	10	Est riow seat	342
Sandards	Water-tight cover				+
	Surface flush vault				
	Locking cap				
A	Casing manieter 0 1	L			
	Material PVC	(9) WELL LOG	i t		
	Welded Threaded Glued	G	round Elevation		
			Material	From	To SWL
Seal Out of the seal					·
t Social Million of the	Well Seal		<u> </u>	3 4	
	Material Sun Dire				
12 10 000	Amount hins		511		
					Jan - Arri
	Grout weight				
		1			
	The set of a descent set of a		··· ······	i	
	Borehole diameter	t .			
				RECEN	Ch
		······			
10.10 · 10.10	Bentonite plug at least 3 ft th	nek		HIN 0 2 20	
Filter	Screen	4			
pack.	Material 2ª PVC			Washington St	
	From ft to	t		Department of Ec	ology
TO 000 'E 000	Slot size				
QL + BOO	- 61				
	Filter pack	mate starred	5 28 09	Completed 528	29
	Material DDYCHO SQ		1-01-1-		
	Size 10 20	WELL CONSTR	UCTION CERTIN	FICATION.	
		i constructed and	for accept responsibilit	y for construction of this well, Instruction standards Materia	end its is used
(5) WELL TESTS:	Flowing Artesian	and the informatic	n reported above are t	rue to my best knowledge an	d beiraf
Pump Bailer A		Type or Pnnt Name	Janual The	m nSorpense No 28	23
PermeabilityYield Conductivity FH	GPM				
	opth artesian flow foundfi	Trainee Name	Uplai	License No	
Temperature of water OF/C D Was water analysis done?? [] Yes No		Driling Company	MOIOURE	Orilling Th	
By whom'?		(Signed)	otta	License No	3
Depth of strata to be analyzed From	ft toft		11000	E Edduard WA	98372
Remarks		Address	IDCU KU		
A		Registration No	HOLOCOTO	MART Con Ce	1101
Name Of Supervising Geologist/Engineer					

DNITORING WELL REPORT $\frac{4598218}{348138}$	Well ID#
OWNER/PROJECT FIFE, WELL NO IN CITU OF FIFE, WELL NO ress SUIT 23FO SF F THE SUME WA ZIP 98424 TYPE OF WORK	(6) LOBATION OF WELL By legal description: Count <u>Herce</u> Lentrude Longitude Township <u>OON</u> (N or S) Range <u>HE</u> (E or W) Section <u>M</u> Stude 1/4 of SU 1/4 of above section. Streetaddress of well location <u>TOHN ALLE & 45HSTCLE</u> HER WA 98424
New construction Alteration (Repair/Reconduction) Conversion Deepening Abandonment	Tax lot number of well location <u>Rockway</u> Row
DRILLING METHOD Rotary Arr Rotary Mod Cable Hollow Stein Auger Other	(7) STATIC WATER LEVEL: Ft below land surface Date lb/sq up Date
BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
cial Standards Ver No Depth of Completed Well 19 ft.	Depth at which water was first found Est. Flow Rate SW L
	From To Est. Flow Rate SWL
Store Sel Standards Water-tight cover	
TO Surface flush vault	
Casing diameter	(9) WELL LOG:
Material PVC Welded Threaded Glued	Ground Elevation
	Material From To SWL
ft pD sol weil Sea Material Dirth Material	
8 TO COOL Amount	
Grout weight	
Borehole diameter DM	
) Din from A rb44	
0.00 ft. to ft. to ft. to	HEGEIVED
Filter Passad - Passad Bentonnte plug at least 3 ft	JUN 0 2 2009
Server Server	
A A SOLUTION AND A SO	Washington State
TO TO Sold From ft to	Department of Ecology
Filter pack	n monte started 5 28 09 Completed 5 28 09
1000 A	WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its
J) WELL TESTS:	compliance with all Weshington well construction standards. Materials used and the information paperted above are true to my best knowledge and behalf
Pump Bailer Air Floward Artestan	Type or Print Name Jo mod Thompsone No 2823
Permeability Yield GPM Conductivity PH	Trainee Name License No
Temperature of water OF/C Depth artesian flow found	A Driving company HOLOCERE Drilling The
Was water analysis done? Ves No	111 2823
By whom? ft to ft to	B
Remarks	
Name Of Supervising Geologist/Engineer	_ Registration No. HOLOCOLOGY94H

廿5982	20				
10NITORING WELL REPORT	Well ID# BBK595	e			
346127	Start Card # RE0342	Start Card # RE03427			
1) OWNER/PROJECT	(6) LOCATION OF WELL By legal County LICICELemude	description:			
ame CITU OF FITR	Township 20N (N or S) Range	Longstude			
idress 5411 23F0 DF F		(E OF W) Section			
	Stree_address of weil location TOHA				
2) TYPE OF WORK	LIFE WA 98424				
New construction	Tax lot number of well location _ Rocia	warkow			
		0			
	(7) STATIC WATER LEVEL:	······································			
3) DRILLING METHOD	Ft below land surface	Date			
Hollow Stein Auger	Artesian Pressure Ib/sq in	Date			
4) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:				
Special Standards Yes No Depth of Completed Well 19 ft.	Depth at which water was first found				
Depth of Completed Well fL	From To	Est. Flow Rate SWL			
Vault 1					
Special Standards Water-tight cover					
TO Surface flush vault					
Casing diameter Material PVC	(9) WELL LOG:				
- Welded Threaded Glues	Convert Elevation				
	Material	From To SWL			
Seal					
Well Seal					
Material Dio State					
Amount Uhin	S				
Grout weight	SIL	0 19			
Borehole diameter	Ω_ ft				
BO The second se	ft				
Bentonite plug at least 3	h thick				
Filter	<u></u>	JUN 0 2 2009			
pack: See Historia Avenue		ashington State			
	Depa	rtment of Ecology			
Filter pack	Sampare started 5 28 09 Comp	leted 5 28 09			
Concernent Size DOO	WELL CONSTRUCTION CERTIFICA	TION:			
(5) WELL TESTS:	compliance with all Washington well construct	ton standards Matenals used			
Pump Bailer Air Floyang Arresian					
Permeability Yield GPM					
Conductivity PH Temperature of water OF/C Depth artesian flow found	Trainee Name				
Was waser analysis done?	Drilling Company	ALRE DE			
By whom? ft to ft to	(Signed) Jafollon	License No 2023			
Remarks	Address OL 21 1000 KDE L	Date 101109			
tandia.	Registration No HOLOCOLO44				
Name Of Supervising Geologist/EngineerQ					

H c a c	0227	
DNITORING WELL REPORT	Well ID# Gustech Soil Bonneg- Start Card # HEOLO39	
348135		=
OWNER/PROJECT F.C. WELL NO	(6) LOCATION OF WELL By legal description:	
ALL DEFA SEE	Township DON (N or S) Range TE (E or W) Section	—
Life State WH Zip 98434	Street address of well location JOH AURE 4 45th StC	tE
TYPE OF WORK	Hife WA 98424	
Conversion Alternation (Repair/Reconduction)	Tax lot number of well location <u>Rodoung</u> Row	
DRILLING METHOD	(7) STATIC WATER LEVEL: Ft below iand surface Date	
Rotary Air Rotary Mud Cable Cable Cable Coher	Aresian PressureIb/sq us Date	
BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:	
ectal Standards Depth of Completed Well 84 ft.	Depth at which water was first found	
	From To Est. Flow Rate SW1]
Vauit Special Standards Water-tight cover		
TO D Surface flush vauit		-
R. B. Locking cap		
Casing diameter Casing diameter Material	(9) WELL LOG- Ground Elevation	_
Weided Threaded G	Cluef	WL.
Seal State C		
ft weil Seal	•,)	
TO CONTRACTOR MATERIA		
ft 0100 Amount	up Barthillid from	
Grout weight	Battana ta ta a gatt	
Borehoje drameter	Dottorri to top () 27	
n from fr	State with a state of the state	
50 C n from ft	receive	

Bentonite plug at least 3 ft thick?

ft to

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Screen

From _

Material

Slot size

Filter pack.

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5) WELL TESTS:		Proving Artesian
Pump Bailer	□ Aır	10 Mills Arreston
Permeability	Yield	GPM
Conductivity	PH	
Temperature of water	OF/C Depth artesi	an flow found
Was water analysis done?	□ No	
By whom'?		
The state of the second s	omft. t	00
Depth of strate to be analyzed. Fr		
Remarks		

Filter

pack:

fL.

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ft.

constructed and/	UCTION CERTIFICATION: or accept responsibility for construction of thi it Washington well construction standards in a peported above are true to my best knowled buryod. Thom psogense No	ige and belief
Trainee Name	License No	
Driling Company	toloune Drilling	The
(Signed)	Man License No	2823
Address Ole 21	TO TA REE ECONNOL HOI MOTO44KH DON	WA 98372
Registration No	HOLOODIO44KH Dan	· (e/1/07

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Date started

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Completed

JUN 0 2 2008

Washington State Department of Ecolog

$\begin{array}{r} \text{DNITORING WELL REPORT} \\ \begin{array}{r} 4 \\ 5 \\ 4 \\ 8 \\ 4 \\ \end{array} \end{array}$	Weil ID# Gustech Soil Boring Start Card # AEOLO39
OWNER/PROJECT FILE WELL NO reas SUID 23FO SF E THE State WH Zip 98424 TYPE OF WORK	(6) LOGATION OF WELL By legal description: Count Leftle Latitude Longitude Township 20N (N or S) Range A E (E or W) Section 17 SW 1/4 of SW 1/4 of above section. Street address of well location TOH ALLE 4 45HSTCLE
New construction Alteration (Repair/Recondution) Conversion Deepening Abandonment SE04014	Tax lot number of well location Rod Clubout Kow
DRILLING METHOD Rotary Arr Rotary Mud Cable KHollow Stein Auger Other	(7) STATIC WATER LEVEL: Ft below land surface Date \restan PressureIbisq in Date
BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES: Depth at which water was first found
scial Standards Depth of Completed Well 64 ft.	Tes They Date SWI
	From To Est. Flow Rate SWL
Vault Special Standards Water-tight cover	
Surface flush vault	
TO Locking cap	
II. Casing diameter	
Material	(9. WELL LOG:
Welded Threaded Glued	Ground Elevation
	Material From To SWL
ft Davo	1
TO Materia OlbaDOH	<u></u>
Amount hio	5
The GALO Grout weight	Baithillid from
CL.S. Office Grout Weight	
	Onton to tap () a4
Borehole diameter	
i in from ft to	# With Duntonte pro
n from ft to	
	Chips
Filter Page at least 3 ft	thick JUN 0 2 2009
pack: Sector Screen	Washington State
• 2029 B 2029 Material	Department of Ecology
E	
TO Story Slot size in	
the State Handler Filter pack	5 22 09
Material	Date started Completed
Parad	
Size	WELL CONSTRUCTION CERTIFICATION: constructed and/or accept responsibility for construction of this well, and its
	compliance with all Mashington well construction standards. Materials US90
5) WELL TESTS: Pump Bailer Air Prowing Arresian	and the information seported above are true to my best knowledge and belief
Permeability Yield GPM	Type or Print Name Jon and Thom psoperate No 2823
Conductivity PH	Trainee Name
Temperature of waterOF/C Depth artesian flow found	
Was water analysis done?	26.86
By whom?	(Synec) Information income No alog 2
Depth of strate to be analyzed Fromft. to	Accress 10421 TOOR REE EDGWOOD WA 91372
Remarks	Registration No. HOLOCOTO44KH Date Le/1/09
Name of Supervising Geologist/Engineer	

E.

MONITORING WELL REPORT #598226 · 346133	Well ID# Contech Soil Boring Start Card #SEO44274
(1) OWNER/PROJECT FIFE WELL NO Name HU OF FIFE Address ZIJI J3FO SF F City Life State WA Zip 984 24	(6) LOGATION OF WELL By legal description: Count <u>Longnude</u> Township <u>OON</u> (N or S) Range <u>AE</u> (E or W) Section <u>17</u> SW 1/4 of SW 1/4 of above section. Streets of well location <u>TOHN AURE 4 45HSTCLE</u>
(2) TYPE OF WORK New construction Conversion Deepening Abandonment	Tax lot number of well location Rocklubout Kow
(3) DRILLING METHOD	(7) STATIC WATER LEVEL. Ft below land surface Artestan PressureIb/sq II Date (8) WATER BEARING ZONES:
(4) BORE HOLE CONSTRUCTION: Yes No Special Standards Depth of Completed Well At ft.	Depth at which water was first found
Valuit Special Standards TO ft TO ft Material Material	(9) WELL LOG:
Seal TO ft. above TO ft. above TO ft. above TO ft. above TO ft. above TO ft. above TO TO TO TO TO TO TO T	Ground Elevation To SWL
Filter Borebole diameter m m ft m	R RECEIVED JUN 0 2 2009 Washington State Department of Ecology
(5) WELL TESTS: Pump Baller Aur Flowing Artesian Permeability Yield 'GPM Conductivity PH Temperature of water OFC Depth artesian flow found ? Was water enalysis doue? Vet No By whom? Depth of strate to be analyzed From ft to ft to ft Remarks	Drite started <u>S27</u> 09 Completed <u>S2709</u> WELL CONSTRUCTION CERTIFICATION. 'constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief. Type or Print Name <u>Direct Above are true to my best knowledge and belief</u> . Trainee Name <u>License No</u> <u>2823</u> Trainee Name <u>License No</u> <u>2823</u> Orlying Company HOLOLOLOL Drilling Thic (S gned) <u>License No</u> <u>2823</u> Address <u>Die 21</u> Todd RDE Ecolument WA 98372 Registration No HOLOCOTOHUKH Date Lo 1109

MONITORING WELL REPORT # 598228	www. (ustach Sail Baring -
348132	Well ID# CARTECH Sail Boring
(1) OWNER/PROJECT	(6) LOGATION OF WELL By legal description:
Addmin SILL JZED ST F	Township 20N (N or S) Range 4E (E or W) Section 17
City Life State WA Zip 98424	SW 1/4 of SW 1/4 of above section. Stress address of well location TOth Ave Ed 45thStCtE
(2) TYPE OF WORK	Tax lot number of well location Rollwall Kolu
New construction Alteration (Repair/Recondition)	Tax lot number of well location ROULLOST COU
(3) DRILLING METHOD	(7) STATIC WATER LEVEL.
Rotary Air Rotary Mod Cable KHollow Stein Auger Other	Ft below land surface Date Arresian Pressure 1b/sq in Date
(4) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
Special Standards Yes No Depth of Completed Well 24 ft.	Depth at which water was first found
	From To Est. Flow Rate SW L
Vault Standards Water-tight cover	
TO Surface flush vault	
ft b Casing diameter	
Matenal	(9) WELL LOG.
Welded Threaded Glued	Ground Elevation
	Material From To SWL.
Seal Seal	
ft Darp	
TO See Material	
Amount	
Grout weight	
	Silt 0 29
Borehole diameter	
in from ft to	ft
10.5 in from ft to	_ ft
Filter	t thek BECEIVED
pack, see Screen	
ft 30.00 H 30.00 Material	
	Washington State
	Department of Ecology
Filter pack	Drie started 527 09 Completed 527 09
	WELL CONSTRUCTION CERTIFICATION.
R.O.O.M	constructed and/or accept responsibility for construction of this well, and its
(5) WELL TESTS:	compliance with all Washington well construction standards. Materials used and the information seported above are true to my best knowledge and belief.
Pump Beller Air Flowbg Artesian Permeability Yield / GPM	Type or Print Name Jamon Thon US Offense No 2823
PermeabilityYieldGPM ConductivityPH	Trainee Name License No
Temperature of water OE/C Depth artesian flow found	Driving company HOLOCENE Drilling The
Was water analysis done?	1812
By whom? Depth of stram to be analyzed From ft to	103100 10210
Remarks	Address DULL DOOL OF CLANNING Day LA LIDO
Name Of Supervising Geologist/Engineer	Registration No HOLOODJ04944 Date CO 1101

347742	出 599109	Well II Start C	HEDDE	NOOI DO	sning	
1) OWMER/PROJECT, WELL NO Name (140 OF hite Midness Juli 23rd St E		(6) LOGATION (County PLEYCE Township OON		Loopite	de	
	* 98424	NE 1/4 of	1/4	of above section.		
(2) TYPE OF WORK		Street address of well is	NOVI	rleveek	dE.	
New construction Abstraction (Repair/Record	(2021)	Tax lot number of well	locatron ROOU	aut		
Conversion Despending (Aber	denment)	0		
(3) DRILLING METHOD		(7) STATIC WAT	TER LEVEL:			
Roury Air Roury Mad Cabi			below iand surface.	Date		
(4) BORE HOLE CONSTRUCTION:		(8) WATER BEA				
Yes No		Depth at which water w				
Special Standards Depth of Completed Well	71.5 A	From	To	Est. Flow Rat	18	WL
Vautt		From				
	-tight cover					
	ce finsh vanit ing cap					
	ng diameter					
		(9) WELL LOG	ad Elevation			
	ded Threaded Glued		Material	From	To	SWL
Seal 2 7						
	I Scal:				t	
	Bentonite)	<u>.</u>			; 	1
	Chips					
Gro	ut weight	Backfil	Led from		25	
		Bottok	n to top		102.1.	
	shole diameter.	Chi	05		<u> </u>	
	in from ft to ft.		, 		k //	
	monite plug at least 3 ft. thuc		I	I - UL	VEL	
Filter pack		I		+ AUG TO	2009	
t BD and BD and Mate	rizi			Mashington	State	
The RESEARCE FOR THE RESERVE	1 ft. to	· · · · · · · · · · · · · · · · · · ·	Đ		Ecolog	y j
	size in.					
	r pack:	Date started	092109_co	spieted 62	7/01	
		: Well Constru	CTION CERTIFIC	ATION:	,	
		I constructed and/or	accept responsibility for Alashington well constr	r construction of this	eti bra , liev becu alaheta)
(5) WELL TESTS:] Flowing Artistian	and the information r	sported above are true	to my best knowled;		
Conductivity PH	GPM	Type or Print Neme	remen carr	SON License No.	<u>a401</u>	
Temperature of water OF/C Depth artesian	flow found ft	Trainee Name	Jacana Drilli	Home No		
Was water analysis doar?		Drilling Company MC			2989	
By whom? Depth of strate to be easilyzed. From ft to _	î	(Signed)	Todd Bd E. E	danne no		(292
Remarks		Registration No	1000.02	4KH Date		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Name of Supervising Goologist/Engineer	ssociates	reliensenting /			-111	~ I

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34774 ± 59911	Well ID# GLOTECH Doil Doring- Start Card # HEOGRAS
(1) OWMER/PROJECT, WELL NO	(6) LOGATION OF WELL By legal description: County 1 LYCL Latitude Longitude Township 20N (N pr \$) Range 4E (E or W) Section 20
city File State UDA Zap 9842	NE 1/4 of NW 1/4 of above section.
(2) TYPE OF WORK	Street address of well location North LoverRdE
New construction (Repair/Recondution)	Tex lot number of well location Radia and a
Conversion Despension (Republication)	Harris (
(3) DRILLING METHOD	(7) STATIC WATER LEVEL:
Rotary Air Rotary Mud Cable Aiger Other	Ft. below land surface. Date Artestan Pressure
(4) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
Special Standards Ves No	Depth at which water was first found
	From To Est. Flow Rate SWL
Vault Standards Water-tight cover	
TO Surface flush vault	
fL Cassing unimeters	
King connector	(9) WELL LOG
Welded Threaded Glass	Groupd Elevation
	Material From To SWL
Seal Carl	
1 Well Seal:	
TO Material Dentopit	e)
Amount Child	
Grout weight	Barkhilled from
	Bottom to top 0 25
	WIPP Buntonity
Borchole danneter	t chips
n from ft to	
BOARD BOARD Bentomie plug at least 3 ft.	this will be a second s
Finer Case - Cas	AUG 1 012009
Material	
ft 71/2000	
TO COSL Slot size n.	
Filter pack.	
Material	Date started 6 22 09 Completed 6 22 09
	WELL CONSTRUCTION CERTIFICATION:
	I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used
(5) WELL TESTS:	and the information reported above are true to my best interiored and beller
PermeebilityYieldGPM	Type or Print Name WYOMOU LOK SON License No 2989
Conductivity PH	Trainee Name
Temperature of water OF/C Dopth artesian flow foundf Was water analysis dose? Yes No	Drilling Company HOOCINE Drilling The
By whom?	(Signed) License No. 2989
Depth of strats to be analyzed, Fromft tof	Access 10421 Todd Rd E Edgewood WA 98372
Remedet	Registration No HOLOCOTO44KH Date 8/109
Name Of Supervising Geologist Englineer ILITAL ASSOLIA TES	

347740 ± 599111	Well ID# GLOTECH JOIL DORING-
	(6) LOCATION OF WELL By legal description:
verse City of hite	(6) LOCATION OF WELL By legal description: County 10 YCLLattradeLongitude
Address Sull aBrd St E	Township OON (N or S) Range 4 E (E or W) Section 20
State State UDA Zip 98422	NE 1/4 of NW 1/4 of above section.
(2) TYPE OF WORK	Street address of well location North Laure Rd E
New construction (Repair/Recondition)	Tex lot number of well location Robudy
Conversion Despening Abandonment	1 0
(3) DRILLING METHOD Rosary Atr Reserv Mod Cable	(7) STATIC WATER LEVEL: Ft. below land serface. Date
A Hollow Stein Augur	Artesian Pressurelb/sq m. Date
(4) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
Yes No	Depth at which water was first found
Special Standards Depth of Completed Well 21,5 ft.	
Vault 1	From To Est. Flow Rata SWL
Special Standards Water-tight cover	
Casting diameter	
Materal	(9) WELL LOG.
Welded Threaded Graed	Ground Elevation
	Material From To SWL
Seal Carlo C	
ft Well Seal:	
TO Material Bentonite	
Amount Childs	
Grout weight	Backhilled from
	Battom to tap 0 2.5
	WIPP Buntonit
Borehole diameter.	hips
	and the state of t
Filter Page Bentonite plug at least 3 ft. th	AUG 10 2009
pacic Screa	Washington
t 30.00 B 20	- Washington State Department of Feelbarr
TO DOBLE TO	
	Date started 0 22 09 Completed 0 22 09
Material	
Size	WELL CONSTRUCTION CERTIFICATION:
(5) WELL TESTS:	compliance with all Washington well construction standards. Materials used
Pump Baller Air Flowing Artesian	and the information reported above are true to my best inswinding and bellef
Permeebility Yield GPM	Type or Print Name DYDMLU CAYISAN LOOMAN No. 2484
Conductivity PR PR Temperature of water ? OF/C Depth artesian flow found ft	Trainee Name
Was weber enelysis done?	Drilling Company HOOCLILE Drilling The
By whore?	(Signed) License No 2989
Depth of strate to be sublyzed. Fromft, toft	ADDRESS 10421 TODO ROLE EELORW OOD WA 98372
Remarks	REGISTRATION NO. HOLOCOTO44KH Date 84109
Name of Supervising Geologist/Bagineer ALIYOL CASSOLICE FES	

WITTORING WELL REPORT # 599112	Well ID# Unotech John Doring
347739	Start Card # SEOHUI3
) OWNER/PROJECT. WELL NO	(6) LOCATION OF WELL By legal description: County PLANCE
dross Sull a Brd St E	Townstore OON (N or S) Range 4 (E or W) Section 20
2 Eife State UD14 24 98424	Street address of well location NOYH LOVERDE
) TYPE OF WORK	FIFE WA 984DY
New construction Alexandre (Repear/Recordinos)	Tax lot number of well location Radial
Conversion Deepusing Abundonment	
) DRILLING METHOD	(7) STATIC WATER LEVEL:
Rotary Air Rotary Mod Cable	Ft. below land surface. Dete
Hollow Stein Auger	Artestan PressureIb/sq m Date
) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
vecial Standards Vet No Depth of Completed Well	Depth at which water was first found
	From To Est. Flow Rate SWL
Vault	
Water-tight cover	
TO Surface flush vanit	
Lasting dismeter	
Material	(9) WELL LOG.
Welded Threaded Ghard	Ground Elevation
	Matterial From To SWL
Seal Seal	
ft. Well Seal	
TO CACO Material	
Grout weight	- Janas silts 0 21.5
Borehole diameter:	
in from ft to	
) \$2.55 <u></u> n. from ft to	
Filter Bentonite plug at least 3 ft.	
pacic Screen	Westwarten Et.
ft PD Material	Washington State Department of Ecology
10 Slot size	
ft	
	Date started 10 22 09 Completed 10 22 09
Szze	WELL CONSTRUCTION CERTIFICATION.
	I constructed and/or accept responsibility for construction of this well, and its
I) WELL TESTS:	compliance with all Washington well construction standards. Metariais used and the information reported above are true to my best knowledge and bellef
PermeabilityYield GPM	Type or Print Name OVOMOUN CON SON License No 2989
Conductivity PH	Trainee Name
Temperature of water OF/C Depth arressian flow found ft Was water analysis dont? Ys No	Driling Company HONING Drilling The
By where?	(Signed)
Dopth of strate to be enabyzed. From ft. to ft	Address 10421 Todd Rd E EEJORWOON WA 98372
Remarks	Registration No FIOLOCOTO44KH Date 8/109
Name Of Supervising Geologist Engineer 12/172 (1550112 TES	

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347738 ± 599113	Well ID# (11570Ch Dail VOORING Searce Card # SEOHLAIB
) OV/NER/PROJECT, WELL NO	(6) LOGATION OF WELL By legal description: County <u>HIVU</u> , <u>Latitude</u> Longitude Townstup, <u>20N</u> (N pr S) Range <u>LE</u> (E or W) Sectors <u>20</u>
× Ele s=10A z= 98424	NE 1/4 of NW 1/4 of above section.
) TYPE OF WORK	Street address of well location North Louge RdE
STIFE OF WORK	FIFE WA 98424
New construction Alteration (Repear/Recondition)	Tex lot number of well location Radial
Conversion Despensing Abundonment	, 0
) DRILLING METHOD	(7) STATIC WATER LEVEL:
Rosery Atr Rosery Mod Cable	Pt. below land surface. Date
M Hollow Stain Auger	Artestan PressureIb/sq m. Date
) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
Yes No	Depth at which water was first found
pocial Standards Depta of Completed Well 2.5 ft.	
Vault 13 14	Prom To Est. Flow Rate SWL
Water-tight cover	
TO Surface flash vault	
Casing disactor	
- Material	(9) WELL LOG
Welded Threaded Gt	
	Material From To SWU
Seal	
ft. Well Seal	
TO CARCINE Material	
Grout weight	Junas silts 0 21.5
Boreboie diameter.	
. in from fit to	n
1050 n_ from fl. tr	p ft.
Bentontie plug at leas	
Filter State State State Street	
Material	AUG 1 0 2009
ft. to	Washington State
TO COASU Slot size m.	Department of Ebology
Filter pack	
Material	Date started 0 32 09 Completed 0 22 09
Size	WELL CONSTRUCTION CERTIFICATION:
	I constructed and/or accept responsibility for construction of this well, and its
5) WELL TESTS:	compliance with all Washington well construction standards. Materials used and the information reported abovy are true to my best knowledge and balls?
PermeabilityYield GPM	Type or Print Name OYOMPLA CARISAN License No. 2989
Conductivity PR	Traines Name
Temperature of water OF/C Bepth areasian flow found	n Drilling Company HOWING Drilling The
Was water analysis door?	
Depth of strate to be analyzed. From ft to	(Signed) License No 2989
Records	Address 104217000 ROE ELOCUDOD WH 98312
Nerve of Supervising Goologite/Engloser 12/172 ASSOLICITE	Registration No HOLOCDIO44KH Date 8/1/09
	where the second s

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HS99114	Well ID# GLOKECH JOIL DOMING
347737	Seart Card # SEOHLAB
) OWNER/PROJECT. WELL NO	(6) LOCATION OF WELL By legal description:
HAME JULI 23rd St E	Coustry <u>PILYCL</u> Latitude LongitudeL
x At s=10A z= 98424	NE 1/4 of NOO 1/4 of shares sectors
:) TYPE OF WORK	Street address of well location North LoverRdE Fife WA 98424
New construction Aliziation (Repair/Recondinon)	Tax lot number of well location Rochway
Conversion Deepening Abandonment	
	Ŭ
) DRILLING METHOD	(7) STATIC WATER LEVEL:
Rotary Air Cable	Ft, below land surface. Date
Follow Stein Auger Other	Artestan Pressure Ib/sq m. Date
) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
Yes No	
pecial Standards Depth of Completed Well 21.5 ft.	Depth at which water was first found
	Frem To Est. Flow Rate SWL
Vault Standards Water-tight cover	
TO Surface flush vanit	
ft. E Locking cap	
Casing diameter	
Material	(9) WELL LOG.
Welded Threaded Glued	Ground Elevation
	Material From To SWL
Seal Call Call Call	
ft. Constant Well Seel	
TO CONTRACTOR Material	
Grout weight	varias silts 0 215
Borehole diameter.	
in from ft. to	
1	
Filter Beatonne plug at least 3 ft.	thuck H. H.H. A.H. P.M. F. H.
pack is a state screen	AUG 1 2009
the Material	PU03 1 - (1005
	Washington State
	Department of Ecology
Filter pack:	
	Date started 0 2209 Completed 0 2209
- Material	
Size	WELL CONSTRUCTION CERTIFICATION:
5) WELL TESTS:	I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used
Punap Beller Arr Flowing Artesian	and the information reported above are true to my best knowledge and belief
PermeebilityYieldGPM	Type or Print Name DYDMPH (OY SON Loonse No. 2989
ConductivityPH	
Temperature of water OF/C Depth artesian flow found ft	
Was webs analysis dond?	Onling Company HOOLAN Drilling Inc
By whom? Depth of strate to ensity sed. From ft on	(Signed) License No 2989
Remoter for to analyzed. From ft. to ft	ADDRESS 10421 Todd Rd E EELOPWOON WA 98372
	Registration No HOLOCOTO44KH Date 87109
Name of Sapervising Geologise Singineer TUTTOL USSOLIATES	

л . З	TORING WELL REPORT # 6581	37 Well ID#
0	MER/PROJECT, WELL NO.	(6) LOCATION OF WELL By legal description:
30	HER/PROJECT, WELL NO.	County <u>Herce</u> <u>Lexitode</u> <u>Longitude</u> Township <u>OON</u> (N pr S) Range <u>HE</u> (E or W) Section <u>O</u>
	Size Sume LOA ZU 98424	NE 1/4 of NW 1/4 of above section.
TYP	E OF WORK	Street address of well location North Lover RdE
) CVN	ew construction (Repair/Recondition)	Tex lot number of well location Rodbial
	provension Deepening Absorbances	
DPI	LLING METHOD	(7) STATIC WATER LEVEL:
	ptary Air 🔄 Rotary Mad 🛄 Cable	Ft. below land surface. Date
	ollow Stein Anger [] Other	Artesian PressureIb/sq. in. Date
BOI	UE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
sciel Si	anderds Depth of Completed Well	Depth at which water was first found
Vauti		From To Est. Flow Rate SWL
0	Special Standards Water-tight cover	
11	D Surface flash vanit	
	n. Locking cap Locking cap Locking discover 011	
	Material PVC	(9) WELL LOG:
	Welded Threaded Graed	Ground Elevation To SWL
: Seal		
	a to to the second well seal:	
9	Antouns Childs	
	Grout weight	Sandy Silts 0 80
	Borehole diameter: hal	
;	D. from ft to	
Filter	Bentonite plug at least 3 f	
Раск	a Data Broker Material PVCA	
	The set of	
20	1. Concerning to a concerning	
	Filter pack	Sandare started 6 22 09 Completed 6 22 09
÷		
		I constructed end/or accept responsibility for colutruction of the well, and its compliance with all Weshington well construction standards. Materials used
	LL TESTS: Purap Baller Air Flowing Artesian	and the information reported above are true to my best knowledge and baller.
	GPM	Type or Print Name OVEMEN CARISON License No. 2989
	persture of water PH persture of water OF/C Septh artesian flow found	Traines Name License No.
	weter enalysis doed?	Drilling Company FICIOCINE, DTILLING, MC
	the of strang to be analyzed. Fromft. to	(Signed) Licensie No. 2989
Rea		Registration No. HOLOCDIO44KH Date 8 1109
Nam	e Of Supervising Goologist/Engineer	

	# 887269	500081
Please print, RESOURCE PROTECTION WE (SUBMIT ONE WELL REPORT PER WELL Construction/Decommission ("x" in box) Construction Decommission ORIGINAL INSTALLATION Notice of Intent Num Consulting Firm Unique Ecology Well IDTag No. WELL CONSTRUCTION CERTIFICATION: 1 c accept responsibility for construction of this well, and its comp Washington well construction standards. Materials used and t above are true to my best knowledge and belief. Driller [] Engineer [] Traince Name (Print Last, First Name) Fadich, Nick Driller/Engineer /Trainee Signature <u>Mathematication</u> Driller or Trainee License No. <u>1529</u>	aber: Propert Site Ad City Locatio constructed and/or pliance with all he information reported Lat/Lon still RE Tax Par Cased or	Department of Ecology CURRENT Notice of Intent No. $S \in H \oplus \mathbb{R}^2$ Type of Well ("x in tong) Resource Protection \mathcal{R}_{es} \mathbb{Z} Geotech Soil Boring ty Owner <u>MUNEY</u> Disposal \mathbb{C}^{es} s iddress <u>4617</u> 70 ⁴⁰ <u>Aut 6</u> 973 FIFE <u>County</u> <u>Parce</u> on <u>SV 1/4-1/4 SW 1/4 Sec <u>VF</u> Twn 20 R <u>4</u> \mathbb{Z} or WWM ng (s, t, r Lat Deg <u>Min</u> <u>Sec</u> \mathbb{Z} Sec <u>Sec</u> \mathbb{Z} \mathbb{Z} O 20/3 \mathbb{Z} \mathbb{Z} O 20/3 \mathbb{Z} O 20/3 \mathbb{Z} \mathbb{Z} O 20/3 \mathbb{Z} O 20/3 \mathbb{Z} \mathbb{Z} O 20/3 \mathbb{Z} O 20/</u>
If trainee, licensed driller's Signature and Lice	nse Number: Work/D	Decommission Completed Date 10 11 13
Construction Design	Well Data Oft to <u>15</u> ft	Off to 5_ft nips Meducen dense black gravelly sand <u>5</u> ft to 15_ft Medium clinse black wet sand + gravel

	÷	87271	
Please RESOURCE PROTECTION (SUBMIT ONE WELL REPORT PER Construction/Decommission ("x" in box Construction Decommission	WELL INSTALLED	CURRENT	Type of Well ("x in box/EC
ORIGINAL INSTALLATION Notice of Inte	ent Number:	Property Owner	☐ Resource protection ~ 2013 ☐ Geotech Soil Boring <u>Murrey Dispositiour(Go</u> 17 70+2 ave & Program
Consulting Firm		Site Address <u>40</u>	11 10th ave & logram
Unique Ecology Well IDTag No.		City <u>PLPO</u>	County Plance
WELL CONSTRUCTION CERTIFICAT accept responsibility for construction of this well, and Washington well construction standards. Materials u above are true to my best knowledge and belief.	ON: I constructed and/or	EWM [] or WWN Lat/Long (s, t, r still REQUIRED)	Lat Deg Min Sec
Driller D Engineer D Trainee Name (Print Last, First Name) Fadich, Nick		Tax Parcel No	Long DegMinSec
Driller/Engineer /Traince Signature	in vadien	Cased or Uncased	Diameter <u>6"</u> Static Level
Driller or Trainee License No. 1529		Work/Decommissi	on Start Date 10/11/13
If traince, licensed driller's Signature an	nd License Number:	Work/Decommissi	on Completed Date 10 1 13
Construction Design	Well	Data	Formation Description
ft	Ofto_1	5_ft <u>techips</u>	Off to 5_ft Medium dense black gruvelly sand ft to 15_ft Medium clense black wet sand + gruvel ft toft ft toft .RECEIVED
	2		DEC 2.6 2013 WA State Department of Ecology (SWRO)

SCALE: 1"= NTS PAGE 2 OF 2

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Please print, sign and re RESOURCE PROTECTION WELL REPOR (SUBMIT ONE WELL REPORT PER WELL INSTALLED Construction/Decommission ("x" in box) Construction Construction Decommission ORIGINAL INSTALLATION Notice of Intent Number: SE 42623 Consulting Firm Unique Ecology Well IDTag No. WELL CONSTRUCTION CERTIFICATION: 1 constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information rep above are true to my best knowledge and belief. Driller Construction Signature Name (Print Last, First Name) Fadich, Nick Driller/Engineer /Trainee Signature Driller or Trainee License No. 1529 If trainee, licensed driller's Signature and License Number:	Type of Well ("x in bordartment of Ecolog: ☐ Resource Protection ☐ Resource Protection ☐ Resource Protection ☐ Geotech Soil Boring Property Owner
Interset of mer's organitie and License Number:	
Construction Design	Vell Data Formation Description
	<u>IS_ft</u> <u>orite_chips</u> <u>black gravelly sand</u> <u>5_fto IS_ft</u> <u>black gravelly sand</u> <u>5_fto IS_ft</u> <u>Medium clense black</u> <u>wed sand + gravel</u> <u>fto_ft</u> <u>RECEIVED</u> <u>DEC 26 2013</u> WA Stale Department <u>of Ecology (SWRO)</u>

ECY 050-12 (Rev. 7/06)

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	# 9872	87	
Please print RESOURCE PROTECTION V (SUBMIT ONE WELL REPORT PER WELCONSTRUCTION/Decommission ("x" in box) Construction Decommission ORIGINAL INSTALLATION Notice of Intent I SE 49 Consulting Firm Unique Ecology Well IDTag No. WELL CONSTRUCTION CERTIFICATION accept responsibility for construction of this well, and its of Washington well construction standards. Materials used a above are true to my best knowledge and belief. Driller Construction standards. Materials used a above are true to my best knowledge and belief. Driller Construction Standards. Naterials used a Driller Construction standards. Materials used a Driller	Vumber: U6 23 : I constructed and/or compliance with all and the information reported Maduat	CURRENT Property Owner	Notice of Intent No. <u>AE24120</u> Department of Ecolog Type of Well ("x in bax) Resource Protection Geotech Soil Boring DEC 202013 <u>NUSPEN</u> <u>Dispesul</u> Co <u>17 7042</u> <u>Ave</u> Water Resources Progra <u>County</u> <u>Purce</u> <u>1/4 SW 1/4 Sec</u> <u>LF</u> Twn 20 R 4
Construction Design	0 ft to <u>15</u>	ft	Off to _5_ft predium dense black gruvelly sand _5_ft to 15_ft Medium clense black wet sund + gruvel ft toft
			DEC 2 6 2013 WA State Department of Ecology (SWRO)

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OT ECOIOGY GOES NUL WARFAIRTY THE LATA AND/OF THE INTORMA May appression of the later and/or the later an	ue Ecology Well IDTag No. <u>B</u> C L CONSTRUCTION CERTIFICATIO t responsibility for construction of this well, and it ington well construction standards. Materials use are true to my best knowledge and belief. riller <u>Bigineer</u> Trainee (Print Last, First Name) <u>Fadich, Nick</u> er/Engineer / Trainee Signature er or Trainee License No. <u>2862</u> ainee, licensed driller's Signature and <u>Construction Design</u> OSNCNERC Noncomment Sentonite 11/4 ^{III} blande Sched. 40 PVC 101 8-12 Wu ^{III} Sched. 40 PVC 15	N: I constructed and/or is compliance with all d and the information reported License-Number: Well $0^{i} - l^{i}$ $1^{i} - 10^{i}$	EWM [] or WWM Lat/Long (s, t, r still REQUIRED) Tax Parcel No Cased or Uncased I Work/Decommissio	Lat Deg Min Sec Long DegMin Sec
d to approve the data of the d				of Ecology (SWRO)

SUBMIT ONE WELL REPORT PER WELL INSTALLED) Construction WELL CONSTRUCTION CENTRICATION Locationed and/or watering or the information reported to been on yets its induced and the information reported to construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will and its compliance with all watering or will construction of this will and its compliance with all work/Decommission Start Date If 25 / 20 MI Work/Obcommission Start Date If 25 / 20 MI Work/Obcommission Completed Diameter If wateriel the wall ucking CaseLock Construction Design Well-of the wall well and the wall ucking CaseLock Construction Design Well-of the wall untervale(s) From to in Stoc Start is of X and Start is of X and Start is		# 9	2861
SUBMIT ONE WELL REPORT PER WELL INSTALLED) Construction WELL CONSTRUCTION CENTRICATION Locationed and/or watering or the information reported to been on yets its induced and the information reported to construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will, and its compliance with all watering or will construction of this will and its compliance with all watering or will construction of this will and its compliance with all work/Decommission Start Date If 25 / 20 MI Work/Obcommission Start Date If 25 / 20 MI Work/Obcommission Completed Diameter If wateriel the wall ucking CaseLock Construction Design Well-of the wall well and the wall ucking CaseLock Construction Design Well-of the wall untervale(s) From to in Stoc Start is of X and Start is of X and Start is		Please print, sign and return RESOURCE PROTECTION WELL REPORT	to the Department of Ecology CURRENT Notice of Intent No. AE 279 29
City		Construction/Decommission ("x" in box)	Type of Well ("x in box) П Resource Protection Geotech Soil Boring Property Owner OCT Industrial Transf
City	Ē		
WELL CONSTRUCTION CERTIFICATION: Lonstructed and/or more resonability for construction of dis well, and its compliance with all where are true is now beach and used and due information reported down are true is now beach and used and due information reported down are true is now beach and used and due information reported down are true is now beach and used information reported down are true is now beach and the information reported down are true is now beach and used information reported down are true is now beach and used information reported down are true is now beach and used information reported down are true is now beach and used information reported down are true is now beach and used information reported down are true is now beach and used information reported down are true is now beach and true is noweach and used information reported and true is nown a		Consulting Firm	
Bit is completed repeated in the completed matching information repared methods. Lat Deg Min Sec	Ţ		Location <u>5.</u> 1/4-1/4 <u>5.</u> 1/4 Sec <u>7</u> Twn 2010 R <u>4</u> E
Wethingon vell construction stundards. Materials used and the information reported above act rule on pysets Lowekge and belicf. Lat/Long (s, f, T Lat DegMinSec	5		
Boilter D. Fragmer D. Trains Statu S. R. Control Cased Tax Parcel No. Cased or Uncased Diameter Cased or Uncased Diameter Static Level Driller or Trainee License No. 2883 Work/Decommission Start Date T/25 / 2014 Work/Decommission Completed Date 2/6 2014 Work/Decommission Completed Date 2/6 2014 If trainee, licensed driller's Signature and License Number: Work/Decommission Completed Date 8/6 2014 Construction Design Water-tight cover Status Null Casing		Washington well construction standards. Materials used and the information reported	
If trainee, licensed driller's Signature and License Number: Work/Decommission Completed Date <u>8/6</u> 2014 Construction Design Well Data Formation Description Surface fluck vault Locking Cap/Lock Casing Diameter <u>2</u> in. Material <u>Duc</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Material <u>5</u> Cachact <u>5</u> A. No <u>12</u> 2014 Material <u>10</u> In. Filter Pack <u>5</u> To <u>19</u> Material <u>Cochact<u>5</u> Strad Completed Depth. <u>19</u></u>			Long DegNimSec
If trainee, licensed driller's Signature and License Number: Work/Decommission Completed Date <u>8/6</u> 2014 Construction Design Well Data Formation Description Surface fluck vault Locking Cap/Lock Casing Diameter <u>2</u> in. Material <u>Duc</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Material <u>5</u> Cachact <u>5</u> A. No <u>12</u> 2014 Material <u>10</u> In. Filter Pack <u>5</u> To <u>19</u> Material <u>Cochact<u>5</u> Strad Completed Depth. <u>19</u></u>		Name (Print Last, First Name) BAUER Corl	Cased or Uncased Diameter Static Level
If trainee, licensed driller's Signature and License Number: Work/Decommission Completed Date <u>8/6</u> 2014 Construction Design Well Data Formation Description Surface fluck vault Locking Cap/Lock Casing Diameter <u>2</u> in. Material <u>Duc</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Weld <u>5</u> Threaded <u>X</u> Glued <u>back</u> Material <u>5</u> Cachact <u>5</u> A. No <u>12</u> 2014 Material <u>10</u> In. Filter Pack <u>5</u> To <u>19</u> Material <u>Cochact<u>5</u> Strad Completed Depth. <u>19</u></u>	2	Driller or Trainee License No. 2883	
Construction Design Well Data Formation Description Wate-light cover Gaing Formation Description Understand Gaing Diameter In. Diameter A. In. Material Welded Threaded X Glued Dottom bottom Welded Threaded X Glued Dottom bottom Weided Threaded X Glued Dottom bottom bottom Weided Threaded X Glued Dottom bottom bottom bottom Difling Method Hollow -Stem Auger Air Rotary Chi p Chi p Borehole Diameter Io In. Screen N3 12 2214 Material 22 PVC In. N3 12 2214 Filter Pack Form To In. Filter Pack Form Io In. Filter Pack Form Io In. Filter Pack Form Io Io Graduation Io Io Io Io		If trainee, licensed driller's Signature and License Number:	Work/Decommission Completed Date 8/6 2014
Water-light cover Surface flush vault Locking Capilock Casing Diameter <u>2</u> in. Material <u>Dyc</u> Welded _ Threaded <u>X</u> Glued Welded _ Threaded <u>X</u> Glued Welded _ Threaded <u>X</u> Glued Welded _ Threaded <u>X</u> Glued Well Seal <u>Arrom 1</u> f. To <u>8</u> ft. Material <u>Scalenaits</u> With Benbanits Chip Drilling Method <u>Hollow -Stem Auger</u> Air Rotary <u>Push Probe</u> Other Borehole Diameter <u>10 in.</u> Screen <u>Material <u>2</u> <u>PVC</u> Interval(s): <u>From To To</u> Slot Size <u>to</u> <u>10</u> <u>NO3</u> 12 2014 <u>Miderial:</u> <u>Conceeplo Stand</u> <u>Size:: Conceeplo Stand</u> <u>Size:: Conceeplo Stand</u> <u>Size:: Conceeplo Stand</u> <u>Size:: Conceeplo Stand</u> <u>Size:: Conceeplo Stand</u></u>			
Surface Tuch vault Locking Casing Casing Claimeter <u>2</u> in. Material <u>Pvc</u> Welded _ Threaded X Glued _ Well Seal _ ft To <u>8</u> ft Material <u>Cachenaite</u> _ From <u>1</u> ft To <u>8</u> ft Material <u>Cachenaite</u> _ Multight _ Drilling Method _ Mar Rotary Mud Rotary Borehole Diameter 	L L	Construction Design Well D	Data Formation Description
Amount Grout Weight Drilling Method			
Amount Grout Weight Drilling Method			
From 8 To 19 Material: Coloredo Stad Size: 10/20 Completed Depth: 19	DOES NUL NA	Casing Diameter Material PyC WeldedThreaded X Well Seal Fromft. To Material Grout Weight Drilling Method Mud Rotary Mud Rotary Push Probe Other Borehole Diameter Material Push Probe Other Borehole Diameter Material Screen Material Push To To From From From From Solot Size Filter Pack:	B R. Dottom to top 0/19 aite Other Chip em Auger
SCALE: 1"= PAGE OF	danau	Material: <u>Colore</u> Size: <u>lo</u> Completed Depth:	

ECY 050-12 (Rev. 7/06)

Ecology is an Equal Opportunity Employer

RESOURCE PROTECTION (SUBMIT ONE WELL REPORT PER WE Construction/Decommission ("x" in box) Construction Decommission ORIGINAL INSTALLATION Notice of Intent Consulting Firm Unique Ecology Well IDTag No. <u>BBK5</u> WELL CONSTRUCTION CERTIFICATION accept responsibility for construction of this well, and its Washington well construction standards. Materials used above are true to my best knowledge and belief. Driller Construction Standards. Materials used above are true to my best knowledge and belief.	Number: REO 3427 Property Ow Site Address Site Address GO Location 34 Location 1 EWM X or Location 2 Still REQUIN Tax Parcel N Cased or Univ Work/Decom Work/Decom	RENT Notice of Intent No. $AE 27929$ Type of Well ("x in box) Resource Protection Geotech Soil Boring mer DCT Industrial Trust 70 M ANE E E 45 St. C+ E. County Pierce - 27 2 1/4-1/45 1/4 Sec 7 Twn 20N R 4E WWM t, r Lat Deg Min Sec RED Long Deg Min Sec
Construction Design	Well Data -Water-tight cover -Surface flush vault -Locking Cap/Lock -Casing Diameterin. MaterialVc WeldedThreaded X Glued	Formation Description Formation Description Back Silled Storn 0/19 bottorn to Top with Bentonite chip ITELON VILLE MUD 12 2014 WV. State angle MUD 12 Of Ebology (Barrier)

RESOURCE PROTECTION WELL REPORT

om om uns vycan næport	PROJECT NAME:	-1 F Jush	STREET ADDRE	ELEVATION:		25
	AS-BUILT	WELL DATA]	EODMAT	ON DESCRIPTION	
		Water was sampled a retractuble sta steel screen Set 20', 30', 40', &s the screen was decontaminated o redriven to the depth. Well was remove backfilled W/b	inless at 10' BGS removed ind 2 next ind and entanite.	Not RI	Observed ECEIVED CT 122000 ARTMENT OF ECOLOGY VELL DRILLING UNIT	
	SCALE: 1" =	PAGE	OF			
1.	050-12 (Rev. 11/89)					

RESOURCE PROTECTION WELL REPORT

	R-2 ect Push Assac NW Decam Health Services	COUNTY: LOCATION: <u>SA/</u> STREET ADDRE WATER LEVEL E GROUND SURF/ INSTALLED: DEVELOPED:	14 <u>SW</u> 1/4 SOC /7 TWN 20NR 4 SS OF WELL: <u>8105</u> 4840	1625 1E 5 ==
AS-BUILT	WELL DATA		FORMATION DESCRIPTION	
	Water was samples a retractable ste steel screen set 20', 30', 40', f the screen was decontaminated a redriven to the depth.	at 50'665 removed	wot observed	
	Well was reman backfilled 4/6	entanit.	RECEIVED OCT 1 2 2000 DEPARTMENT OF ECOLOGY WELL DRILLING UNIT	

WATER WELL REPORT	CURRENT		
	Notice of Intent No. W353247		
E t ê l û c Y Construction/Decommission ("x" in circle)	Unique Ecology Well ID Tag NoBAF-108		
Construction	Water Right Permit No.		
Decommission ORIGINAL INSTALLATION Notice			
of Intent Number	Property Owner Name Puyallup		ns
	Well Street Address 7801 48th	St. E.	
PROPOSED USE: Demossic Industrial Municipal DeWater Infigation Test Well Other	City Fife County Pierce		1771
TYPE OF WORK: Owner's number of well (if more than one)	Location se 1/4-1/4 sw 1/4 Sec 17 Twn 20		
Z New well Reconditioned Method : Dug Bored Driven Cable Z Rotary Jetted	Lat/Long (s, t, r Lat Deg Lat		
DIMENSIONS: Diameter of well 6" inches, drilled 120' ft.	Still REQUIRED) Long Deg Long		
Depth of completed well <u>117 BLS</u> ft.			
CONSTRUCTION DETAILS	Tax Parcel No04201780	07	
Casiag Welded <u>6"</u> Diam. from <u>+1,5</u> ft to <u>107</u> ft. Installed: Liner installed <u></u> Diam. from <u></u> ft. to <u></u> ft.			
Threaded Tiam. from ft. to ft.	CONSTRUCTION OR DECOMMISSION		
Perforations: Yes WNo	Formation: Describe by color, character, size of material and nature of the material in each stratum penetrated, with at least	structure, and th one entry for en	e kind and ch chappe of
Type of perforator used	information. (USE ADDITIONAL SHEETS IF NECES	SARY.)	on country of
SIZE of perfsin. byin. and no. of perfsfromft. toft.	MATERIAL	FROM	то
Screens: ZYes No ZK-Pac Location 106'	brown silty sand	0	9
	grey silt	9	14
Diam. 6" tele Slot size 12 from 117 ft. to 107 ft.	grey clay	14	32
DiamSlot sizefromfl. tofl.	grey silty sand	32	41
Gravel/Filter packed: Yes Z No Size of gravel/sand Materials placed fromft. toft.	grey silt	41	87
	grey sand	87	93
Surface Scal: Yes No To what depth? 18' ft.	grey silty sand w/wood & brown silt lenses	93	107
Materiel used in seat <u>3/8" bentonite chips</u>	layered water bearing grey sand w/grey silt lenses	107	117
Did any strate contain unusable water?	grey silt	117	120
Type of water? Depth of strata Method of sealing strata off			
PUMP: Manufacturer's Name_Grundfos			
Type: 10GPM S.S. Sub H.P. 3/4 HP			
WATER LEVELS: Land-surface elevation above mean sea level ît.	DECT	VED	
Static levelft. below top of well Date 10/12/16		W Ram ind	
Artesian pressure lbs. per square inch Date			
Artesian water is controlled by	OCT 3 1	2010	
(cap, valve, stc.)			
WELL TESTS: Drawdown is amount water level is lowered below static level	WA State De		<u></u>
Was a pump test made? 22 Yes INo If yes, by whom? <u>Bison</u> Yield: 15 gal/min. with 23' ft. drawdown after 1.0 hrs.	of Ecology	(SWRO	
Yield: gal./min, with ft. drawdown after ins.			
Yield: gal./min with ft. drawdown after hrs.			
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)			
Time Water Level Time Water Level Time Water Level			
Date of test			
Bailer test 10 gal/min. with 20' ft. drawdown after 1.0 hrs.			
Airtestgal./min. with stem set atft. forhrs.			
Artesian flow g.p.m. Date			
Temperature of water Was a chemical analysis made? 😰 Yes 🛄 No			
	Start Date 10/06/2016 Complete	d Date10/11	1/2016
WELL CONSTRUCTION CERTIFICATION: 1 constructed and/or acc	ept responsibility for construction of this well, and	its complian	ce with all
Washington well construction standards. Materials used and the informatio	n reported above are true to my best knowledge an	d belief.	

Diller 🖬 Engineer 🖬 Traince Name (Print) Driller - Darrell Feavel	Drilling Company Bison Well Drilling & Septic, LLC
Driller/Engineer/Traince Signature	Address PO Box 5142
Driller or trainee License No 2398	City, State, Zip Spanaway, WA 98387
If TRAINEE,	Contractor's
Driller's Licensed No.	Registration No. BISONWD945R9 Date 10/26/2016
Driller's Signature	Ecology is an Equal Opportunity Employer

# 1600728	Well ID#_000001
	Start Card # <u>RE 13630</u>
) OWNER/PROJECT WELL NO	(6) LOCATION OF WELL By legal description: County <u>Pierce</u> Latitude Longitude
toress 4617 TOTH AVE E TV FICE Some WA zip 98424	Township $\frac{1}{200}$ (N or S) Range $\frac{46}{14}$ (E or W) Section $\frac{17}{14}$
ty Fife State WA Zip 98424	1/4 of 1/4 of above section. Street address of well location 4617 70th Avec E
2) TYPE OF WORK	Fife
New construction Alteration (Repair/Recondition)	Tax iot number of well location
Conversion Deepening Abandonment	
	(7) STATIC WATER LEVEL:
3) DRILLING METHOD	Ft. below land surface. Date
Hollow Stein Auger Other	Arresian Pressure lb/sq. in. Date
4) BORE HOLE CONSTRUCTION:	(8) WATER BEARING ZONES:
pecial Standards Depth of Completed Well ft.	Depth at which water was first found
Depth of Completed Well n	From To Est. Flow Rate SWL
Vault 👔	
D Special Standards Water-tight cover	
TO D	
n. 2 Locking cap	
Casing diameter & Material PUC	(9) WELL LOG:
Welded Threaded Glue	Ground Elevation
	Material From To SWL
Seal E C	
Weil Seal:	
Material Benjoni	te Sands 0 30
18 TO DE Amount Chi	PS
Grout weight	
Constant Con	DECENTED
Orden dia from Off. to	30 ft RECEIVED
2000 in from fr. to	DEC 212016
D D D D D Bentonite plug at least	
Filter OS O Screen: OH O	WA State Department
pack: Sigs Streen: Atterial 2" PVC	of Ecology (SWRO)
10 ft 20 ft to	50
30 TO 5000 Slot size 20 in.	
Filter pack:	Sond Date started 11 29 16 Completed 11 29/16
Material COLO FOOL	
05864 U 05864 Size 10120	WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its
223 NUTL 1 TESTS.	compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.
(5) VELL TESTS:	Type or Print Name RUON OF 1000 License No. 32081
Permeability Yield GPM	
ConductivityPHPH	The second
Was water analysis done?	Drilling Company HOLOCULL'STUIL DIC
By whom?	1 1110 10 1 March D will on 100 98373
Depth of strata to be analyzed. Fromft. to	
	Registration No. HOLOCOLO44KFP Date 12/10/16
Name Of Supervising Geologist/Engineer <u>GeoChyineers</u>	

idress 46 ty. 2) TYPE (The Department of accordy does in or mainancy the Data ana/or meaningmation on uns 3) DRILL I) BORE pecial Standa (5) WELL

±199633	3	
RESOURCE PROTECTION WELL RI		RENT e of Intent No. <u>SE 75864</u> AE 63546
Construction/Decommission B - 26 - 20		Type of Well
onstruction		Resource Protection
Decommission ORIGINAL INSTALLATION Notice		Geotechnical Soil Boring
of Intent Number	Property Owner Character Site Address 7400	
Consulting Firm Shavinton Uhlson		County <u>Pierce</u>
Unique Ecology Well ID Tag No. <u>B- 26- 20</u>	Location 14 NE	14NW See 20 INA 20 R 4 OF
WFULCONSTRUCTION CERTIFICATION: 1 constructed and or accept responsibility for	Lat/Long (s,t,r Lat Deg	
construction of this well, and its compliance with all Washington well construction standards	still Required) Long Deg	Long Min/See
Materials used and the information reported above are true to my best knowledge and belief	Tax Parcel No.	
X Driller Trainee Name (Print) MR(1), MC (c)(1/2)	Cased or Uncased Diameter	S Static Level
Driller/Trainee License No. 3186		
	Work Decommision Start Da	ne <u>\$112/20</u>
If traince, licesned drillers'	Work Decommision Complet	4.D. 5111720
Signature and License No.	work Decommission Complet	
Construction/Design W	/ell Data	Formation Description
CONCRETE SUF	Pace SEAL	$\frac{0}{2} - \frac{5}{2}$ FT $\frac{0}{2} - \frac{10}{2}$ FT $\frac{0}{2} - \frac{10}{2}$ FT $\frac{10}{2} - \frac{10}{2}$ FT
DEPTH OF BORING	20 FT	010 - 70 FT StHy Sand RECENSED NOV 16 2020 WA State Department of Ecology (SW/RO)
Scale 1" =	Page of	ECY 050-12 (Recty 2.01)

Page _____ of _____

1	1996	336
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Please print, sign and raturn by mail to Department of Ecology

RESC	OURCE PROTECTIC	ON WELL REPORT	CUR	RENT Notice of Intent No. RE19	356
Constru X Constru	mmission ORIGINAL INSTALL	12) B-28-20		Type of Well (select one) Resource Protection Geotech Soil Boring	24
Consultin	g Firm Shannon WIIS	ber	Property Ow	ner City of File	
Unique E	cology Well ID	Q	City Parts	County Dierce	<u> </u>
WELL CO accept tespor Washington	DISTRUCTION CERTIFICAT wibility for construction of this well, a well construction stundards. Materials e to my beat knowledge and belief.	nd its compliance with all	Location NE	1/4-1/4 NU/4 Sec 36 Two 200 000	
Driller/Eng	Engineer Clamine Name (Print) M Jineer Arainee Signature 77. Frainee License No. 3384	Ach McCarley	ray curching	ased Diameter <u>S</u> Static Lovel <u></u>	
				hission Start Date 5/12/20	
lf trainee, Signature	liconsed driller's and License No			ission Completed Date 5/12/20	
2	Construction/Design	We	ll Data	Formation Description	
		MONUMENT TYPE	CE SEAL t.	0. 10 th Gold Sally Shed 10. 20 A. Fine Sand	
		BACKFILL 19 TYPE: <u>Now!</u> (c	mert	<u> </u>	7 1 3 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
- - - - - - - - - - - - - - - - - - -		PVC SCREEN SLOT SIZE: TYPE: GRAVEL PACK MATERIAL:		<u> </u>	
1				<u> </u>	8 0 7 1 1
		WELL DEPTH 20	* (REMARKS VWP (O) 18' NOV 16 WA State De of Ecology	2970 notiment
1					ł.

-5	1996368
RESOURCE PROTECTION WELL (SUBMIT ONE WELL REPORT PER WELL INSTALLED)	L REPORT CURRENT Notice of Intent No. SE 75864 Type of Well AF 63546
Construction/Decommission B - 26 - 20	Type of Well AF 63546
Construction	Resource Protection
Decommission ORIGINAL INSTALLATION Notice	Geotechnical Soil Boring
of Intent Number	Property Owner City of Fife
	Site Address 7400 21814 St 6
Consulting Firm Shaware LANSON	City Fise County Pierce
Unique Ecology Well ID Tag No. <u>B- 26- 20</u>	Location 14 NE 14NW See 20 TWO 20 R 4 OF
WELL CONSTRUCTION CERTIFICATION: 4 constructed and/or accept responsibility	y for Lat/Long (s.t.r Lat Deg Lat Min See
construction of this well, and its compliance with all Washington well construction stand.	
Materials used and the information reported above are true to my best knowledge and be	Tax raree No.
X Driller Trainee Name (Print) Miltu. Mc (Arth) Driller Trainee Signature	
	Cased or Uncased Diameter 5 Static Level
Driller Trainee License No. 3186	Work Decommision Start Date 5/ V2/ 20
If traince, licesned drillors'	
Signature and License No.	Work Decommision Completed Date 5/17/20
Construction/Design	Well Data Formation Description
CONCRET	E SURFACE SEAL 0 - 5 FT
BACKFILL	
	010-20 FT Silty Saved
	NOV 1 6 2020
DEPTH OF B	WA State Department
Scale I"	Page of ECY 050-12 (Rec 1/2.01)

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2070 258

PAP 182 Fife, WA



Substit new well insulied. See page two for instruction Type of Wall: Decommission => Original NOTNO.	Resource Protection Well Re		Notice of Intent No. R	21678
Construction Decommission => Original NOI No. Construction Construction Consulting Well Grounding Well Consulting Firm Consulting Firm Consulting Firm Consulting Well Consulting Well Was a variance approved for this well/boring? P see More Bendential Home Well Steet Address 7206 48th Street East Construction well Constructions (see instructions): WWM = or EWM # WFLL_CONSTRUCTION CERTIFICATION: Iscatter well Location (see instructions): WWM = or EWM # Sweight well construction and belief. County Pierce Tax Parcel No. Difference Trainee Signature County Pierce Tax Parcel No. Difference Trainee Signature County Pierce Tax Parcel No. Company Name Pacific NW Driffing & Probe (OR) Borbled diameter 4.5 inches Casing diameter 1.5 inches Static water fevel _10 Above-ground completion with bollard = Sponsor's signature Static water fevel _10 Sch-Que Cosing (0-5) Berhold diameter [4.5] Completed Date9/9/21 Construction Design DTW- 10' Stick-up of top of well casing		wo for instructions.	Type of Well:	
■ Deconstruction Deconstruction Permediation Well Generationalision ⇒ Original NOI No. ■ Decology Well D1 Tag No. BHU765 (MW2) Build Street Address 7305 48th Street East Ground Source III Water-sampling Site Well Name Residential Home Differential Noi III Street Address 7305 48th Street East City File County Fierce Was a variance approved for this well/boring? P IS Bill Once Testificantial Home City File County Fierce Well Street Address 7305 48th Street East City File County Pierce Tax Parcel No. Location (see instructions): WWM □ or EWM III SW ½-½ SW ½, Section 17 Towa 20N Range 4E SW ½-½ SW ½, Section 17 Towa 20N Range 4E moord are thor on their baseling atter and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report are than on their standard. Materials used and the information report a				n Well 🔲 Injection Point
Ecology Well ID Tig No, BHU766 (MW2) Interview of the second of the				Grounding Well
Site Well Name (restriction Points) U sport and the maximum of the second s	Bell 1765 (MM/2)	<u> </u>		
Consulting Firm Property Owner Residential Home Was a variance approved for this well/boring? Yes m No If yes, what was the variance for? Well Street Address 7306 48th Street East Well. CONSTRUCTION CERTIFICATION: I constructed and reinformation street and the information fragment well construction attacked. Materials and and the information with construction attacked. Materials and and the information reported are true on ybest kow/degree and belief. Director of the street Address 7306 48th Street East Well. I construction of this well, and it information is construction attacked. Materials and and the information is the proper (Print Last, First Name) Borese, Robert Location (see instructions): WWM [] or EWM [] Differ/Digitoer/Trainee Signature Company Name Pacific NW Drilling & Probe (OR) Drobelo diameter 4.5 inches Casing diameter 1.5 inches Tormpany Name Pacific NW Drilling & Probe (OR) Probe (of well casing	Ecology Well ID Tag No. DHOTOS (MWZ)	··· · ··· ··· ··· ··· ··· ···		
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accept responsibility for construction of this well, and its compliance with all tartitude (Example: 47.12345)			Location (see instruction	ns): WWM 🗆 or EWM 🔳
Washington well construction standards. Materials used and the information reported are two my best knowledge and blief. El Driller I Trainee I Engineer Latitude (Example: 47.12345) B Driller I Trainee I Engineer Name (Print Last, First Name) Boese, Robert WGS 84 Coordinate System) Driller Dangineer/Trainee Signature Second and the output state of the second and the information (Print Last, First Name) Boese, Robert Borehole diameter 4.5 inches Casing diameter 1.5 inches Company Name Pacific NW Drilling & Prohe (OR) I Above-ground completion with bollards I show ground surface Start Date 9/9/21 Completed Date 9/9/21 If trainee box is checked, sponsor's license number: Stick-up of top of well casing I habove ground surface Start Date 9/9/21 Completed Date 9/9/21 Stick-up of top of well casing (MW2) DTW- 10' Well Data Driller's Log Flush mount morument (0-1') 1.5' Sch.40 PVC Casing (0-5') Bentonite chips (1-4') Stick-op of second (4-20') Sch.40 Prapack Screen (5-20') Filler pack/Sand (4-20') DTW- 10' Sity-Sandy, si.clay, brown-grey, moist to wet, (0-20') Department at Longy Top of the second start of the sec			<u>SW 14-14 SW 14, S</u>	ection 17 Town 20N Range 4E
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APPENDIX B

Laboratory Report and Chain-of-Custody Documents



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Thursday, April 6, 2023 Steve Omo BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

RE: A3C0680 - Fife AG Fields - PAP182MAG.23E

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C0680, which was received by the laboratory on 3/17/2023 at 10:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>DAuvil@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Default Cooler

(See Cooler Receipt Form for details) 3.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PAP182-COMP7-0-6''	A3C0680-01	Soil	03/16/23 10:50	03/17/23 10:22
PAP182-COMP8-0-6''	A3C0680-02	Soil	03/16/23 11:10	03/17/23 10:22
PAP182-COMP9-0-6''	A3C0680-03	Soil	03/16/23 11:30	03/17/23 10:22
PAP182-COMP10-0-6''	A3C0680-04	Soil	03/16/23 11:50	03/17/23 10:22
PAP182-COMP11-0-6''	A3C0680-05	Soil	03/16/23 12:30	03/17/23 10:22
PAP182-COMP12-0-6''	A3C0680-06	Soil	03/16/23 12:10	03/17/23 10:22
PAP182-COMP13-0-6''	A3C0680-07	Soil	03/16/23 14:10	03/17/23 10:22
PAP182-COMP14-0-6''	A3C0680-08	Soil	03/16/23 14:30	03/17/23 10:22
PAP182-COMP15-0-6''	A3C0680-09	Soil	03/16/23 14:55	03/17/23 10:22
PAP182-COMP16-0-6''	A3C0680-10	Soil	03/16/23 15:20	03/17/23 10:22
PAP182-COMP17-0-6''	A3C0680-11	Soil	03/16/23 13:50	03/17/23 10:22
PAP182-COMP7-14-18''	A3C0680-12	Soil	03/16/23 10:55	03/17/23 10:22
PAP182-COMP8-14-18''	A3C0680-13	Soil	03/16/23 11:15	03/17/23 10:22
PAP182-COMP9-14-18''	A3C0680-14	Soil	03/16/23 11:35	03/17/23 10:22
PAP182-COMP10-14-18''	A3C0680-15	Soil	03/16/23 11:55	03/17/23 10:22
PAP182-COMP11-14-18''	A3C0680-16	Soil	03/16/23 12:35	03/17/23 10:22
PAP182-COMP12-14-18''	A3C0680-17	Soil	03/16/23 12:15	03/17/23 10:22
PAP182-COMP13-14-18''	A3C0680-18	Soil	03/16/23 14:15	03/17/23 10:22
PAP182-COMP14-14-18''	A3C0680-19	Soil	03/16/23 14:35	03/17/23 10:22
PAP182-COMP15-14-18''	A3C0680-20	Soil	03/16/23 15:00	03/17/23 10:22
PAP182-COMP16-14-18''	A3C0680-21	Soil	03/16/23 15:25	03/17/23 10:22
PAP182-COMP17-14-18''	A3C0680-22	Soil	03/16/23 13:55	03/17/23 10:22

Apex Laboratories

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Darrell Auvil, Client Services Manager



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL SAMPLE RESULTS

		organochlori	me restició	les by EPA 8081	ID			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
PAP182-COMP7-0-6" (A3C0680-01RE1)				Matrix: Soil		Batch:	23C0748	C-05
Dieldrin	80.0		2.35	ug/kg dry	1	03/21/23 14:51	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 62 % 108 %	Limits: 42-129 % 55-130 %		03/21/23 14:51 03/21/23 14:51	EPA 8081B EPA 8081B	
PAP182-COMP8-0-6" (A3C0680-02RE1)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	104		2.39	ug/kg dry	1	03/21/23 15:24	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 61 % 98 %	Limits: 42-129 % 55-130 %		03/21/23 15:24 03/21/23 15:24	EPA 8081B EPA 8081B	
PAP182-COMP9-0-6" (A3C0680-03RE1)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	107		2.38	ug/kg dry	1	03/21/23 15:40	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 70 % 124 %	Limits: 42-129 %		03/21/23 15:40 03/21/23 15:40	EPA 8081B EPA 8081B	
PAP182-COMP10-0-6" (A3C0680-04RE1)				Matrix: Soil		Batch:	23C0748	C-05
Dieldrin	118		2.38	ug/kg dry	1	03/21/23 14:25	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 81 % 130 %	Limits: 42-129 %		03/21/23 14:25 03/21/23 14:25	EPA 8081B EPA 8081B	
PAP182-COMP11-0-6" (A3C0680-05RE1)				Matrix: Soil		Batch:	23C0748	C-05
Dieldrin	110		2.39	ug/kg dry	1	03/21/23 14:42	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 75 % 129 %	Limits: 42-129 %		03/21/23 14:42 03/21/23 14:42	EPA 8081B EPA 8081B	
PAP182-COMP12-0-6" (A3C0680-06RE1)				Matrix: Soil		Batch:	23C0748	C-05
Dieldrin	92.5		2.37	ug/kg dry	1	03/21/23 15:00	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 77 % 121 %	Limits: 42-129 %		03/21/23 15:00 03/21/23 15:00	EPA 8081B EPA 8081B	
PAP182-COMP13-0-6" (A3C0680-07RE1)				Matrix: Soil		Batch:	23C0748	C-05
Dieldrin	124		2.46	ug/kg dry	1	03/21/23 15:17	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 65 % 107 %	Limits: 42-129 % 55-130 %		03/21/23 15:17 03/21/23 15:17	EPA 8081B EPA 8081B	
PAP182-COMP14-0-6" (A3C0680-08RE1)				Matrix: Soil		Batch	23C0748	C-05

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BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL SAMPLE RESULTS

				es by EPA 8081	<u> </u>			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
PAP182-COMP14-0-6" (A3C0680-08RE1)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	134		2.53	ug/kg dry	1	03/21/23 15:34	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	very: 69 % 119 %	Limits: 42-129 % 55-130 %		03/21/23 15:34 03/21/23 15:34	EPA 8081B EPA 8081B	
PAP182-COMP15-0-6" (A3C0680-09RE2)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	113		2.44	ug/kg dry	1	03/21/23 16:09	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	very: 74 % 110 %	Limits: 42-129 % 55-130 %	-	03/21/23 16:09 03/21/23 16:09	EPA 8081B EPA 8081B	
PAP182-COMP16-0-6" (A3C0680-10RE1)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	133		2.47	ug/kg dry	1	03/21/23 16:26	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	pery: 61 % 102 %	Limits: 42-129 % 55-130 %		03/21/23 16:26 03/21/23 16:26	EPA 8081B EPA 8081B	
PAP182-COMP17-0-6" (A3C0680-11RE1)				Matrix: Soil		Batch: 2	23C0748	C-05
Dieldrin	153		2.46	ug/kg dry	1	03/21/23 15:56	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	very: 60 % 111 %	Limits: 42-129 % 55-130 %		03/21/23 15:56 03/21/23 15:56	EPA 8081B EPA 8081B	
PAP182-COMP7-14-18" (A3C0680-12RE1)				Matrix: Soil		Batch: 2	23C0987	C-05
Dieldrin	64.8		2.29	ug/kg dry	1	03/28/23 12:14	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	very: 67 % 117 %	Limits: 42-129 % 55-130 %		03/28/23 12:14 03/28/23 12:14	EPA 8081B EPA 8081B	
PAP182-COMP8-14-18" (A3C0680-13RE1)				Matrix: Soil		Batch: 2	23C0987	C-05
Dieldrin	60.8		2.36	ug/kg dry	1	03/28/23 14:16	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	pery: 78 % 126 %	Limits: 42-129 % 55-130 %		03/28/23 14:16 03/28/23 14:16	EPA 8081B EPA 8081B	
PAP182-COMP9-14-18" (A3C0680-14RE2)				Matrix: Soil		Batch: 2	23C0987	C-05
Dieldrin	37.5		2.31	ug/kg dry	1	03/29/23 17:31	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Recov	very: 76 % 126 %	Limits: 42-129 % 55-130 %		03/29/23 17:31 03/29/23 17:31	EPA 8081B EPA 8081B	
)			Matrix: Soil				

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BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL SAMPLE RESULTS

	с ·		D ·					
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
PAP182-COMP10-14-18" (A3C0680-15RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	101		2.36	ug/kg dry	1	03/28/23 14:51	EPA 8081B	_
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 84 %	Limits: 42-129 %		03/28/23 14:51	EPA 8081B	
Decachlorobiphenyl (Surr)			129 %	55-130 %	1	03/28/23 14:51	EPA 8081B	
PAP182-COMP11-14-18" (A3C0680-16RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	101		2.36	ug/kg dry	1	03/28/23 15:08	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 85 %	Limits: 42-129 %	1	03/28/23 15:08	EPA 8081B	
Decachlorobiphenyl (Surr)			118 %	55-130 %	1	03/28/23 15:08	EPA 8081B	
PAP182-COMP12-14-18" (A3C0680-17RE2)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	96.7		2.30	ug/kg dry	1	03/29/23 17:48	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 86 %	Limits: 42-129 %	1	03/29/23 17:48	EPA 8081B	
Decachlorobiphenyl (Surr)			124 %	55-130 %	1	03/29/23 17:48	EPA 8081B	
PAP182-COMP13-14-18" (A3C0680-18RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	72.1		2.40	ug/kg dry	1	03/28/23 15:43	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 70 %	Limits: 42-129 %	1	03/28/23 15:43	EPA 8081B	
Decachlorobiphenyl (Surr)			121 %	55-130 %	1	03/28/23 15:43	EPA 8081B	
PAP182-COMP14-14-18" (A3C0680-19RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	48.6		2.45	ug/kg dry	1	03/28/23 16:07	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 72 %	Limits: 42-129 %	1	03/28/23 16:07	EPA 8081B	
Decachlorobiphenyl (Surr)			114 %	55-130 %	1	03/28/23 16:07	EPA 8081B	
PAP182-COMP15-14-18" (A3C0680-20RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	58.9		2.41	ug/kg dry	1	03/29/23 18:04	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 73 %	Limits: 42-129 %	1	03/29/23 18:04	EPA 8081B	
Decachlorobiphenyl (Surr)			130 %	55-130 %	1	03/29/23 18:04	EPA 8081B	
P182-COMP16-14-18" (A3C0680-21RE1)				Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	27.4		2.38	ug/kg dry	1	03/29/23 18:20	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 71 %	Limits: 42-129 %	1	03/29/23 18:20	EPA 8081B	
Decachlorobiphenyl (Surr)			105 %	55-130 %	1	03/29/23 18:20	EPA 8081B	
PAP182-COMP17-14-18" (A3C0680-22RE1)			Matrix: Soil		Batch:		C-05	

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BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL SAMPLE RESULTS

	(Organochlori	ine Pesticic	les by EPA 808′	1B			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PAP182-COMP17-14-18" (A3C0680-22	:RE1)			Matrix: Soil		Batch:	23C0987	C-05
Dieldrin	107		2.42	ug/kg dry	1	03/29/23 18:37	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr) Decachlorobiphenyl (Surr)		Reco	very: 66 % 110 %	Limits: 42-129 %		03/29/23 18:37 03/29/23 18:37	EPA 8081B EPA 8081B	

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Darrell Auvil, Client Services Manager



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Project Number: PAP182MAG.23E Project Manager: Steve Omo

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Project:

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ANALYTICAL SAMPLE RESULTS

		P	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PAP182-COMP7-0-6" (A3C0680-01)				Matrix: So	il	Batch:	23C0750	
% Solids	84.9		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP8-0-6" (A3C0680-02)				Matrix: So	il	Batch:	23C0750	
% Solids	82.8		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP9-0-6" (A3C0680-03)				Matrix: So	il	Batch:	23C0750	
% Solids	84.1		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP10-0-6" (A3C0680-04)				Matrix: So	il	Batch:	23C0750	
% Solids	83.9		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP11-0-6" (A3C0680-05)				Matrix: So	il	Batch:	23C0750	
% Solids	83.6		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP12-0-6" (A3C0680-06)				Matrix: So	il	Batch:	23C0750	
% Solids	83.9		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP13-0-6" (A3C0680-07)				Matrix: So	il	Batch:	23C0750	
% Solids	80.7		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP14-0-6" (A3C0680-08)				Matrix: So	il	Batch:	23C0750	
% Solids	79.1		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP15-0-6" (A3C0680-09)				Matrix: So	il	Batch:	23C0750	
% Solids	81.5		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP16-0-6" (A3C0680-10)				Matrix: So	il	Batch:	23C0750	
% Solids	80.2		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP17-0-6" (A3C0680-11)				Matrix: So	il	Batch:	23C0750	
% Solids	80.5		1.00	%	1	03/21/23 06:34	EPA 8000D	
PAP182-COMP7-14-18" (A3C0680-12)				Matrix: So	il	Batch:	23C0928	
% Solids	86.8		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP8-14-18" (A3C0680-13)				Matrix: So	il	Batch:	23C0928	

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BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

<u>Report ID:</u> A3C0680 - 04 06 23 1114

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PAP182-COMP8-14-18" (A3C0680-13)				Matrix: So	bil	Batch:	23C0928	
% Solids	84.1		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP9-14-18" (A3C0680-14)				Matrix: So	bil	Batch:	23C0928	
% Solids	86.0		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP10-14-18" (A3C0680-15)				Matrix: So	bil	Batch:	23C0928	
% Solids	84.2		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP11-14-18" (A3C0680-16)				Matrix: So	bil	Batch:	23C0928	
% Solids	84.4		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP12-14-18" (A3C0680-17)				Matrix: So	bil	Batch:	23C0928	
% Solids	86.4		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP13-14-18" (A3C0680-18)				Matrix: So	bil	Batch:	23C0928	
% Solids	83.1		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP14-14-18" (A3C0680-19)				Matrix: So	bil	Batch:	23C0928	
% Solids	81.5		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP15-14-18" (A3C0680-20)				Matrix: So	pil	Batch:	23C0928	
% Solids	82.7		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP16-14-18" (A3C0680-21)				Matrix: So	bil	Batch:	23C0928	
% Solids	83.7		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP17-14-18" (A3C0680-22)				Matrix: So	bil	Batch:	23C0928	
% Solids	82.0		1.00	%	1	03/24/23 06:38	EPA 8000D	

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Darrell Auvil, Client Services Manager



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BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoc	nlorine P	esticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0748 - EPA 3546/36	40A (GPC)						So	il				
Blank (23C0748-BLK1)			Prepareo	d: 03/20/23	06:20 Ana	lyzed: 03/21	/23 14:19					C-05
EPA 8081B												
Dieldrin	ND		2.00	ug/kg v	vet 1							
Surr: 2,4,5,6-TCMX (Surr)		Rece	overy: 67 %	Limits: 4	2-129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			118 %	5	5-130 %		"					
LCS (23C0748-BS1)			Prepareo	d: 03/20/23	06:20 Ana	lyzed: 03/21	/23 14:35					C-05
EPA 8081B												
Dieldrin	46.9		2.00	ug/kg v	vet 1	50.0		94	56-136%			
Surr: 2,4,5,6-TCMX (Surr)		Rece	overy: 62 %	Limits: 4	2-129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			115 %	5	5-130 %		"					
Duplicate (23C0748-DUP1)			Prepareo	1: 03/20/23	06:20 Ana	lyzed: 03/21	/23 15:07					C-05
QC Source Sample: PAP182-CO	MP7-0-6'' (A	3C0680-01RE	<u>1)</u>									
<u>EPA 8081B</u>												
Dieldrin	94.9		2.34	ug/kg d	lry 1		80.0			17	30%	
Surr: 2,4,5,6-TCMX (Surr)		Rece	overy: 61 %	Limits: 4	2-129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			115 %	5	5-130 %		"					
Matrix Spike (23C0748-MS1)			Prepareo	d: 03/20/23	06:20 Ana	lyzed: 03/21	/23 16:12					C-05
OC Source Sample: PAP182-CO	MP17-0-6" (A	A3C0680-11RI	E1)									
<u>EPA 8081B</u>												
Dieldrin	235		2.47	ug/kg d	lry 1	61.8	153	132	56-136%			
Surr: 2,4,5,6-TCMX (Surr)		Rece	overy: 65 %	Limits: 4	2-129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			108 %	5	5-130 %		"					
Batch 23C0987 - EPA 3546/36	40A (GPC)						So					
Blank (23C0987-BLK1)	,		Prepare	d: 03/24/23	08:47 Ana	lyzed: 03/28	3/23 11:39					C-05
EPA 8081B			•									
Aldrin	ND		2.00	ug/kg v	vet 1							
alpha-BHC	ND		2.00	ug/kg v								
beta-BHC	ND		2.00	ug/kg v								

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Wilsonville, OR 97070

Project: <u>Fife AG Fields</u> Project Number: **PAP182MAG.23E**

Project Manager: Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

L			Organoch	iorine Pe	sticides	by EPA 80	J81B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	40A (GPC)						Soi	I				
Blank (23C0987-BLK1)			Prepared	1: 03/24/23 0	8:47 Ana	yzed: 03/28	/23 11:39					C-0:
gamma-BHC (Lindane)	ND		2.00	ug/kg we	t 1							
cis-Chlordane	ND		2.00	ug/kg we	t 1							
trans-Chlordane	ND		2.00	ug/kg we	t 1							
4,4'-DDD	ND		2.00	ug/kg we	t 1							
4,4'-DDE	ND		2.00	ug/kg we	t 1							
4,4'-DDT	ND		2.00	ug/kg we	t 1							
Dieldrin	ND		2.00	ug/kg we	t 1							
Endosulfan I	ND		2.00	ug/kg we	t 1							
Endosulfan II	ND		2.00	ug/kg we	t 1							
Endosulfan sulfate	ND		2.00	ug/kg we	t 1							
Endrin	ND		2.00	ug/kg we	t 1							
Endrin Aldehyde	ND		2.00	ug/kg we	t 1							
Endrin ketone	ND		2.00	ug/kg we	t 1							
Heptachlor	ND		2.00	ug/kg we	t 1							
Heptachlor epoxide	ND		2.00	ug/kg we	t 1							
Methoxychlor	ND		6.00	ug/kg we	t 1							
Chlordane (Technical)	ND		60.0	ug/kg we	t 1							
Toxaphene (Total)	ND		60.0	ug/kg we	t 1							
Surr: 2,4,5,6-TCMX (Surr)		Reco	wery: 72 %	Limits: 42-	129 %	Dilt	ution: 1x					
Decachlorobiphenyl (Surr)			126 %	55-	130 %		"					
LCS (23C0987-BS1)			Prepared	l: 03/24/23 0	8:47 Anal	yzed: 03/28	/23 11:56					C-0:
EPA 8081B			1									
Aldrin	39.4		2.00	ug/kg we	t 1	50.0		79	45-136%			
alpha-BHC	37.9		2.00	ug/kg we		50.0		76	45-137%			
beta-BHC	38.8		2.00	ug/kg we		50.0		78	50-136%			
delta-BHC	44.1		2.00	ug/kg we		50.0		88	47-139%			
gamma-BHC (Lindane)	38.6		2.00	ug/kg we		50.0		77	49-135%			
cis-Chlordane	44.8		2.00	ug/kg we		50.0		90	54-133%			
trans-Chlordane	44.2		2.00	ug/kg we		50.0		88	53-135%			
4,4'-DDD	54.3		2.00	ug/kg we		50.0		109	56-139%			
4,4'-DDE	51.0		2.00	ug/kg we		50.0		102	56-134%			
.,. 200			2.00	ug/kg we		50.0		102	50-13476			
4,4'-DDT	63.3			110/kg we		טטר		1//	- <u>γ</u> υ_141%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	nlorine Pe	sticides	by EPA 80	81B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	40A (GPC)						Soi	I				
LCS (23C0987-BS1)			Prepared	d: 03/24/23 0	8:47 Ana	lyzed: 03/28	/23 11:56					C-05
Endosulfan I	48.2		2.00	ug/kg we	t 1	50.0		96	53-132%			
Endosulfan II	54.7		2.00	ug/kg we	t 1	50.0		109	53-134%			
Endosulfan sulfate	55.9		2.00	ug/kg we	t 1	50.0		112	55-136%			
Endrin	61.5		2.00	ug/kg we	t 1	50.0		123	57-140%			
Endrin Aldehyde	45.6		2.00	ug/kg we	t 1	50.0		91	35-137%			
Endrin ketone	58.9		2.00	ug/kg we	t 1	50.0		118	55-136%			
Heptachlor	39.1		2.00	ug/kg we	t 1	50.0		78	47-136%			
Heptachlor epoxide	44.5		2.00	ug/kg we	t 1	50.0		89	52-136%			
Methoxychlor	69.8		6.00	ug/kg we	t 1	50.0		140	52-143%			
Surr: 2,4,5,6-TCMX (Surr)		Reco	overy: 73 %	Limits: 42-	-129 %	Dilı	ution: 1x					
Decachlorobiphenyl (Surr)			122 %	55-	130 %		"					
Duplicate (23C0987-DUP1)			Preparec	1: 03/24/23 0	98:47 Ana	yzed: 03/28/	/23 12:31					C-05
OC Source Sample: PAP182-CO	MP7-14-18'' (A3C0680-12F	<u>RE1)</u>									
EPA 8081B												
Aldrin	ND		2.30	ug/kg dr	y 1		ND				30%	
							110					
alpha-BHC	ND		2.30	ug/kg dr	y 1		ND				30%	
1	ND ND		2.30 2.30	ug/kg dr ug/kg dr							30% 30%	
alpha-BHC beta-BHC delta-BHC					y 1		ND					
beta-BHC	ND		2.30	ug/kg dr	y 1 y 1		ND ND				30%	
beta-BHC delta-BHC gamma-BHC (Lindane)	ND ND		2.30 2.30	ug/kg dr ug/kg dr	y 1 y 1 y 1	 	ND ND ND				30% 30%	
beta-BHC delta-BHC	ND ND ND		2.30 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1	 	ND ND ND ND	 	 	 	30% 30% 30%	
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane	ND ND ND 29.4	 	2.30 2.30 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1	 	ND ND ND 26.5	 	 	 11	30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD	ND ND 29.4 20.3	 	2.30 2.30 2.30 2.30 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	 	ND ND ND 26.5 18.0	 	 	 11 12	30% 30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE	ND ND 29.4 20.3 ND	 	2.30 2.30 2.30 2.30 2.30 2.30 3.33	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	 	ND ND ND 26.5 18.0 ND	 	 	 11 12 	30% 30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane	ND ND 29.4 20.3 ND ND	 	2.30 2.30 2.30 2.30 2.30 3.33 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	 	ND ND ND 26.5 18.0 ND ND	 	 	 11 12 	30% 30% 30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin	ND ND 29.4 20.3 ND ND ND	 	2.30 2.30 2.30 2.30 2.30 3.33 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	 	ND ND ND 26.5 18.0 ND ND ND	 	 	 11 12 	30% 30% 30% 30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT	ND ND 29.4 20.3 ND ND ND 72.9	 	2.30 2.30 2.30 2.30 2.30 3.33 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND ND 26.5 18.0 ND ND 64.8	 	 	 11 12 12	30% 30% 30% 30% 30% 30% 30% 30%	R-
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II	ND ND 29.4 20.3 ND ND 72.9 ND	 	2.30 2.30 2.30 2.30 2.30 3.33 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND ND 26.5 18.0 ND ND 64.8 ND	 		 11 12 12 	30% 30% 30% 30% 30% 30% 30% 30%	R
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate	ND ND 29.4 20.3 ND ND 72.9 ND ND		2.30 2.30 2.30 2.30 2.30 3.33 2.30 2.30	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND ND 26.5 18.0 ND ND 64.8 ND ND			 11 12 12 	30% 30% 30% 30% 30% 30% 30% 30% 30%	R
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endosulfan sulfate	ND ND 29.4 20.3 ND ND 72.9 ND ND ND		2.30 2.30 2.30 2.30 2.30 3.33 2.30 2.30	ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND 26.5 18.0 ND ND 64.8 ND ND ND ND			 11 12 12 	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	R
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin Aldehyde	ND ND 29.4 20.3 ND ND ND ND ND ND ND		2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30	ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND ND 26.5 18.0 ND ND 64.8 ND ND ND ND ND			 11 12 12 	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	R
beta-BHC delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I	ND ND 29.4 20.3 ND ND ND ND ND ND ND ND ND		2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30	ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1		ND ND ND 26.5 18.0 ND ND 64.8 ND ND ND ND ND ND ND			 11 12 12 	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	R

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: <u>Fife AG Fields</u>

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	liorine Pe	sticides	DY EPA 8	U81B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	40A (GPC)						So	il				
Duplicate (23C0987-DUP1)			Prepared	1: 03/24/23 0	8:47 Ana	lyzed: 03/28	3/23 12:31					C-05
<u>QC Source Sample: PAP182-CO</u>	MP7-14-18''	(A3C0680-12F	<u>RE1)</u>									
Methoxychlor	ND		6.89	ug/kg dry	/ 1		ND				30%	
Toxaphene (Total)	ND		68.9	ug/kg dry	/ 1		ND				30%	
Surr: 2,4,5,6-TCMX (Surr)		Reco	overy: 79 %	Limits: 42-	129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			122 %	55-	130 %		"					
Duplicate (23C0987-DUP2)			Prepared	l: 03/24/23 0	8:47 Ana	lyzed: 03/29	0/23 14:48					C-05
QC Source Sample: PAP182-COM	MP7-14-18''	(A3C0680-12F	RE2)									
<u>EPA 8081B</u>												
Chlordane (Technical)	254		68.9	ug/kg dry	v 1		223			13	30%	
Matrix Spike (23C0987-MS1)			Prepared	l: 03/24/23 0	8:47 Ana	lyzed: 03/28	8/23 13:23					C-05
QC Source Sample: Non-SDG (A	3C0825-02RH	E1)				-						
EPA 8081B												
Aldrin	60.4		2.68	ug/kg dry	/ 1	67.0	2.04	87	45-136%			
alpha-BHC	55.8		2.68	ug/kg dry	/ 1	67.0	ND	83	45-137%			
beta-BHC	69.0		2.68	ug/kg dry	/ 1	67.0	ND	103	50-136%			
delta-BHC	76.7		2.68	ug/kg dry	/ 1	67.0	ND	115	47-139%			
gamma-BHC (Lindane)	58.0		2.68	ug/kg dry	/ 1	67.0	ND	87	49-135%			
cis-Chlordane	73.2		2.68	ug/kg dry	/ 1	67.0	ND	109	54-133%			
trans-Chlordane	72.6		2.68	ug/kg dry	v 1	67.0	ND	108	53-135%			
4,4'-DDD	93.4		2.68	ug/kg dry	v 1	67.0	ND	139	56-139%			
4,4'-DDE	91.2		2.68	ug/kg dry	v 1	67.0	ND	136	56-134%			Q-
4,4'-DDT	105		2.68	ug/kg dry	/ 1	67.0	ND	157	50-141%			Q-
Endosulfan I	72.1		2.68	ug/kg dry	/ 1	67.0	ND	108	53-132%			
Endosulfan II	83.7		2.68	ug/kg dry	/ 1	67.0	ND	125	53-134%			
Endosulfan sulfate	84.6		2.68	ug/kg dry	/ 1	67.0	ND	126	55-136%			
Endrin	97.0		2.68	ug/kg dry	/ 1	67.0	ND	145	57-140%			Q-
Endrin Aldehyde	73.5		2.68	ug/kg dry	/ 1	67.0	ND	110	35-137%			
Endrin ketone	89.9		2.68	ug/kg dry	/ 1	67.0	ND	134	55-136%			
Heptachlor	59.9		2.68	ug/kg dry		67.0	ND	89	47-136%			
Heptachlor epoxide	68.7		2.68	ug/kg dry		67.0	ND	103	52-136%			
Methoxychlor	124		8.03	ug/kg dry		67.0	ND	185	52-143%			Q-

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project: <u>Fife AG Fields</u> Project Number: **PAP182MAG.23E**

Project Manager: Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoc	nlorine P	Pesticides	by EPA 8	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/364	0A (GPC)						Soi	l				
Matrix Spike (23C0987-MS1)			Prepare	d: 03/24/23	3 08:47 Ana	lyzed: 03/28	/23 13:23					C-05
QC Source Sample: Non-SDG (A3	C0825-02R	<u>E1)</u>										
Surr: 2,4,5,6-TCMX (Surr)		Reco	overy: 73 %	Limits:	42-129 %	Dil	ution: 1x					
Decachlorobiphenyl (Surr)			125 %	5	55-130 %		"					
Matrix Spike (23C0987-MS2)			Prepare	d: 03/24/23	3 08:47 Ana	lyzed: 03/28	/23 16:42					C-05
QC Source Sample: Non-SDG (A3	C0825-02R	E2)										
EPA 8081B												
Dieldrin	444		13.4	ug/kg o	dry 5	67.0	281	243	56-136%			Q-0

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0750 - Total Solids (Dr	y Weigl	ht)					Soil					
Duplicate (23C0750-DUP1)			Prepared	: 03/20/23	12:02 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	662-01)											
% Solids	84.5		1.00	%	1		87.4			3	10%	
Duplicate (23C0750-DUP2)			Prepared	: 03/20/23	12:02 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	662-05)											
% Solids	90.2		1.00	%	1		89.5			0.8	10%	
Duplicate (23C0750-DUP3)			Prepared	: 03/20/23	12:02 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	662-08)											
% Solids	91.0		1.00	%	1		92.2			1	10%	
Duplicate (23C0750-DUP4)			Prepared	: 03/20/23	12:02 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	667-03)											
% Solids	83.3		1.00	%	1		83.5			0.3	10%	
Duplicate (23C0750-DUP5)			Prepared	: 03/20/23	12:02 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	667-04)											
% Solids	87.5		1.00	%	1		89.4			2	10%	
Duplicate (23C0750-DUP6)			Prepared	: 03/20/23	17:58 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	712-01)											
% Solids	77.8		1.00	%	1		80.4			3	10%	
Duplicate (23C0750-DUP7)			Prepared	: 03/20/23	17:58 Ana	yzed: 03/21/	23 06:34					
QC Source Sample: Non-SDG (A3C0	732-01)											
% Solids	82.1		1.00	%	1		83.6			2	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project:Fife AG FieldsProject Number:PAP182MAG.23E

Project Manager: Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0928 - Total Solids (I	Dry Weigl	ht)					Soil					
Duplicate (23C0928-DUP1)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
OC Source Sample: PAP182-COM EPA 8000D	P7-14-18''	<u>(A3C0680-12)</u>										
% Solids	86.7		1.00	%	1		86.8			0.07	10%	
Duplicate (23C0928-DUP2)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: PAP182-COM	P8-14-18''	(A3C0680-13)										
<u>EPA 8000D</u> % Solids	83.9		1.00	%	1		84.1			0.1	10%	
Duplicate (23C0928-DUP3)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: PAP182-COM	P9-14-18''	(A3C0680-14)										
<u>EPA 8000D</u> % Solids	86.2		1.00	%	1		86.0			0.2	10%	
Duplicate (23C0928-DUP4)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
<u>QC Source Sample: Non-SDG (A3</u> % Solids	<u>C0846-01)</u> 72.4		1.00	%	1		72.2			0.3	10%	
Duplicate (23C0928-DUP5)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	C0846-02)											
% Solids	87.5		1.00	%	1		89.2			2	10%	
Duplicate (23C0928-DUP6)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	C0846-03)											

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B								
Prep: EPA 3546/3640A (GPC)					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 23C0748								
A3C0680-01RE1	Soil	EPA 8081B	03/16/23 10:50	03/20/23 06:20	10.03g/10mL	10g/5mL	1.99	
A3C0680-02RE1	Soil	EPA 8081B	03/16/23 11:10	03/20/23 06:20	10.1g/10mL	10g/5mL	1.98	
A3C0680-03RE1	Soil	EPA 8081B	03/16/23 11:30	03/20/23 06:20	10.01g/10mL	10g/5mL	2.00	
A3C0680-04RE1	Soil	EPA 8081B	03/16/23 11:50	03/20/23 06:20	10.03g/10mL	10g/5mL	1.99	
A3C0680-05RE1	Soil	EPA 8081B	03/16/23 12:30	03/20/23 06:20	10.02g/10mL	10g/5mL	2.00	
A3C0680-06RE1	Soil	EPA 8081B	03/16/23 12:10	03/20/23 06:20	10.08g/10mL	10g/5mL	1.98	
A3C0680-07RE1	Soil	EPA 8081B	03/16/23 14:10	03/20/23 06:20	10.08g/10mL	10g/5mL	1.98	
A3C0680-08RE1	Soil	EPA 8081B	03/16/23 14:30	03/20/23 06:20	10.01g/10mL	10g/5mL	2.00	
A3C0680-09RE2	Soil	EPA 8081B	03/16/23 14:55	03/20/23 06:20	10.05g/10mL	10g/5mL	1.99	
A3C0680-10RE1	Soil	EPA 8081B	03/16/23 15:20	03/20/23 06:20	10.11g/10mL	10g/5mL	1.98	
A3C0680-11RE1	Soil	EPA 8081B	03/16/23 13:50	03/20/23 06:20	10.09g/10mL	10g/5mL	1.98	
Batch: 23C0987								
A3C0680-12RE1	Soil	EPA 8081B	03/16/23 10:55	03/24/23 08:47	10.07g/10mL	10g/5mL	1.99	
A3C0680-13RE1	Soil	EPA 8081B	03/16/23 11:15	03/24/23 08:47	10.08g/10mL	10g/5mL	1.98	
A3C0680-14RE2	Soil	EPA 8081B	03/16/23 11:35	03/24/23 08:47	10.06g/10mL	10g/5mL	1.99	
A3C0680-15RE1	Soil	EPA 8081B	03/16/23 11:55	03/24/23 08:47	10.07g/10mL	10g/5mL	1.99	
A3C0680-16RE1	Soil	EPA 8081B	03/16/23 12:35	03/24/23 08:47	10.03g/10mL	10g/5mL	1.99	
A3C0680-17RE2	Soil	EPA 8081B	03/16/23 12:15	03/24/23 08:47	10.07g/10mL	10g/5mL	1.99	
A3C0680-18RE1	Soil	EPA 8081B	03/16/23 14:15	03/24/23 08:47	10.02g/10mL	10g/5mL	2.00	
A3C0680-19RE1	Soil	EPA 8081B	03/16/23 14:35	03/24/23 08:47	10.03g/10mL	10g/5mL	1.99	
A3C0680-20RE1	Soil	EPA 8081B	03/16/23 15:00	03/24/23 08:47	10.03g/10mL	10g/5mL	1.99	
A3C0680-21RE1	Soil	EPA 8081B	03/16/23 15:25	03/24/23 08:47	10.02g/10mL	10g/5mL	2.00	
A3C0680-22RE1	Soil	EPA 8081B	03/16/23 13:55	03/24/23 08:47	10.1g/10mL	10g/5mL	1.98	

Percent Dry Weight

Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23C0750							
A3C0680-01	Soil	EPA 8000D	03/16/23 10:50	03/20/23 12:02			NA
A3C0680-02	Soil	EPA 8000D	03/16/23 11:10	03/20/23 12:02			NA
A3C0680-03	Soil	EPA 8000D	03/16/23 11:30	03/20/23 12:02			NA
A3C0680-04	Soil	EPA 8000D	03/16/23 11:50	03/20/23 12:02			NA
A3C0680-05	Soil	EPA 8000D	03/16/23 12:30	03/20/23 12:02			NA
A3C0680-06	Soil	EPA 8000D	03/16/23 12:10	03/20/23 12:02			NA
A3C0680-07	Soil	EPA 8000D	03/16/23 14:10	03/20/23 12:02			NA

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

SAMPLE PREPARATION INFORMATION

Percent Dry Weight								
Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
A3C0680-08	Soil	EPA 8000D	03/16/23 14:30	03/20/23 12:02			NA	
A3C0680-09	Soil	EPA 8000D	03/16/23 14:55	03/20/23 12:02			NA	
A3C0680-10	Soil	EPA 8000D	03/16/23 15:20	03/20/23 12:02			NA	
A3C0680-11	Soil	EPA 8000D	03/16/23 13:50	03/20/23 12:02			NA	
Batch: 23C0928								
A3C0680-12	Soil	EPA 8000D	03/16/23 10:55	03/23/23 13:39			NA	
A3C0680-13	Soil	EPA 8000D	03/16/23 11:15	03/23/23 13:39			NA	
A3C0680-14	Soil	EPA 8000D	03/16/23 11:35	03/23/23 13:39			NA	
A3C0680-15	Soil	EPA 8000D	03/16/23 11:55	03/23/23 13:39			NA	
A3C0680-16	Soil	EPA 8000D	03/16/23 12:35	03/23/23 13:39			NA	
A3C0680-17	Soil	EPA 8000D	03/16/23 12:15	03/23/23 13:39			NA	
A3C0680-18	Soil	EPA 8000D	03/16/23 14:15	03/23/23 13:39			NA	
A3C0680-19	Soil	EPA 8000D	03/16/23 14:35	03/23/23 13:39			NA	
A3C0680-20	Soil	EPA 8000D	03/16/23 15:00	03/23/23 13:39			NA	
A3C0680-21	Soil	EPA 8000D	03/16/23 15:25	03/23/23 13:39			NA	
A3C0680-22	Soil	EPA 8000D	03/16/23 13:55	03/23/23 13:39			NA	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0680 - 04 06 23 1114

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0680 - 04 06 23 1114

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0680 - 04 06 23 1114

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

Project: **Fife AG Fields** Project Number: PAP182MAG.23E Project Manager: Steve Omo

Report ID: A3C0680 - 04 06 23 1114

Accreditation

TNI ID

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex	Laboratories	

Matrix

TNI ID	

Analysis	TNI_ID	Analyte	TNI_ID

Amolarto

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

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	(I)	702	PAP182MAG.23E	baenv.com																				RECEIVED BY: Signature:	Printed Name:		Company:						
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CHA 0R 97223 Ph: 503-718-2323 Fax: 503-718-0333				Witsonville, OR 97070			ΞŢ	va	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	Time (TA			SAMPLES ARE HELD FOI			12							
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		d, OR		17, Wils																	2	4	PLES	а ^с	T								
	APEX LABS	12232 S.W. Garden Place, Tigard,	Company: BB&A Environmental	Address: 25195 SW Parkway Ave, #207,	Sampled by: Steve Omo	Site Location: WA OR Other:		SAMPLE ID	PAP182 - COMP7 - 0-6"	PAP182 - COMP8 - 0-6"	PAP182 - COMP9 - 0-6"	PAP182 - COMP10 - 0-6"	PAP182 - COMP11 - 0-6"	PAP182 - COMP12 - 0-6"	PAP182 - COMP13 - 0-6"	PAP182 - COMP14 - 0-6"	PAP182 - COMP15 - 0-6"	PAP182 - COMP16 - 0-6"	PAP182 - COMP17 - 0-6"	Normal T	TAT Requested (circle)			RELINQUISHED BY: Signature:	Printed Name:	STEPHEN OMO	Company: Brea finvid-onafentat						

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville Fife AG Fields Project: 25195 SW Parkway Ave, Suite #207 Project Number: PAP182MAG.23E **Report ID:** Wilsonville, OR 97070 Project Manager: Steve Omo A3C0680 - 04 06 23 1114 ~ ЧО N Project # PAP182MAG.23E 200 RECEIVED BY: Signature: Printed Name Company: Lab # N3 (1) 10K1. НОГD НОГР НОГД НОГР НОГР HOLD НОГР НОГР HOLD НОГР Ногр momo@bb DIELDRIN 8081 Z-0021 EMAIL DRAFT RESULTS 1200-COLS Email: TCLP Metals (8) REOUESI Al, Sb, As, Ba, Be, Cd Ca, Cr, Co, Cu, Fe, Pb Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Va, Tl, V, Zn Date: Time: SIS FIFE AG Fields Priority Metals (13) RCRA Metals (8) SPECIAL INSTRUCTIONS Fax: 8081 Chlor. Pest CHAIN OF CUSTODY 8085 FCBs Project Name: **TELINQUISHED BY** SHA9 MIS 0728 503-570-9484 8260 VOCs npany 8260 Halo VOCs 8260 RBDM VOCs Phone: N + X3.18 xĐ-HdLMN 12232 S.W. Garden Place, Tigard, OR 97223 Phr. 503-718-2323 Fax: 503-718-0333 XQ-HdLMN NML6H-HCID Steve Omo Other: 72 HR # OF CONTAINERS -Normal Turn Around Time (TAT) = 7-10 Business Day -WATRIX s ŝ s s S s S c. S s ď Project Mgr: 5 DAY HELD FOR 30 DAYS 48 HR 12:15 15:25 11:15 11:35 11:55 12:35 14:15 14:35 15:00 13:55 10:55 IME Wilsonville, OR 97070 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 3/16/2023 DATE 3 3/17/2023 24 HR 4 DAY AMPLES ARE \$01 Time: FVB ID # Date: Address: 25195 SW Parkway Ave, #207. TAT Requested (circle) AP182 - COMP16 - 14"-18" PAP182 - COMP17 - 14"-18" PAP182 - COMP11 - 14"-18" AP182 - COMP12 - 14"-18" PAP182 - COMP13 - 14"-18" AP182 - COMP14 - 14"-18" AP182 - COMP15 - 14"-18" AP182 - COMP10 - 14"-18" AP182 - COMP9 - 14"-18" APEX LABS PAP182 - COMP7 - 14"-18" AP182 - COMP8 - 14"-18" **BB&A Enviror** OR Steve Omo **3&A ENVIRONMENTAI** ELINQUISHED BY in' EPHEN OMO Location: Sampled by: AMPLEID nted Name: WA 244 Company:

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>BB&A Environmental - Wilsonville</u> 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070	Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo	<u>Report ID:</u> A3C0680 - 04 06 23 1114
Project/Project #:F	APEX LABS COOLER RECEIPT FORM E AG Fields PAPI S2MAG-23E 23@_/D22_ By:	Dther Cooler #7
Containers/volumes received Do VOA vials have visible he Comments	form initiated? Yes No Comments: appropriate for analysis? Yes No Comments: cadspace? Yes No NA Yes NA Yes Witness: A Cooler Inspected by: Witness: A For	m Y-003 R-00 -

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Thursday, April 6, 2023 Steve Omo BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

RE: A3C0819 - Fife AG Fields - PAP182MAG.23E

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C0819, which was received by the laboratory on 3/22/2023 at 11:37:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>DAuvil@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Default Cooler

(See Cooler Receipt Form for details) 2.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville	Project: Fife AG Fields	
25195 SW Parkway Ave, Suite #207	Project Number: PAP182MAG.23E	<u>Report ID:</u>
Wilsonville, OR 97070	Project Manager: Steve Omo	A3C0819 - 04 06 23 1137

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMATION											
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received								
PAP182-COMP7-12-0''-6''	A3C0819-01	Soil	03/16/23 15:30	03/22/23 11:37								
PAP182-COMP7-12-14''-18''	A3C0819-02	Soil	03/16/23 15:40	03/22/23 11:37								
PAP182-COMP13-17-0''-6''	A3C0819-03	Soil	03/16/23 16:00	03/22/23 11:37								
PAP182-COMP13-17-14''-18''	A3C0819-04	Soil	03/16/23 15:50	03/22/23 11:37								

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

<u>Report ID:</u> A3C0819 - 04 06 23 1137

ANALYTICAL SAMPLE RESULTS

		Organochlori	ine Pesticid	es by EP	PA 8081	В			
Analyte	Sample Result	Detection Limit	Reporting Limit	Uni	its	Dilution	Date Analyzed	Method Ref.	Notes
PAP182-COMP7-12-0"-6" (A3C0819-0	1RE1)			Matrix	x: Soil		Batch: 2	23C0987	C-05
Dieldrin	78.8		2.37	ug/kg	g dry	1	03/29/23 18:53	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 69 %	Limits: 4	42-129 %	1	03/29/23 18:53	EPA 8081B	
Decachlorobiphenyl (Surr)			118 %	5	55-130 %	1	03/29/23 18:53	EPA 8081B	
PAP182-COMP7-12-14"-18" (A3C0819	-02RE1)			Matrix	x: Soil		Batch: 2	23C0987	C-05
Dieldrin	65.8		2.30	ug/kg	g dry	1	03/29/23 19:09	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 80 %	Limits: 4	42-129 %	1	03/29/23 19:09	EPA 8081B	
Decachlorobiphenyl (Surr)			114 %	5	55-130 %	1	03/29/23 19:09	EPA 8081B	
PAP182-COMP13-17-0"-6" (A3C0819-	03RE1)			Matrix	x: Soil		Batch: 2	23C0987	C-05
Dieldrin	86.0		2.47	ug/kg	g dry	1	03/29/23 19:26	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 77 %	Limits: 4	42-129 %	1	03/29/23 19:26	EPA 8081B	
Decachlorobiphenyl (Surr)			108 %	5	55-130 %	1	03/29/23 19:26	EPA 8081B	
PAP182-COMP13-17-14"-18" (A3C081	9-04RE1)			Matrix	x: Soil		Batch: 2	23C0987	C-05
Dieldrin	58.9		2.40	ug/kg	g dry	1	03/29/23 19:42	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 74 %	Limits: 4	42-129 %	1	03/29/23 19:42	EPA 8081B	
Decachlorobiphenyl (Surr)			114 %	5	55-130 %	1	03/29/23 19:42	EPA 8081B	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project Number: PAP182MAG.23E Project Manager: Steve Omo

Fife AG Fields

Project:

Report ID: A3C0819 - 04 06 23 1137

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
PAP182-COMP7-12-0"-6" (A3C0819-01)				Matrix: So	bil	Batch:	23C0928	
% Solids	84.1		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP7-12-14"-18" (A3C0819-02	2)			Matrix: So	oil	Batch:	23C0928	
% Solids	86.0		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP13-17-0"-6" (A3C0819-03)				Matrix: So	bil	Batch:	23C0928	
% Solids	80.4		1.00	%	1	03/24/23 06:38	EPA 8000D	
PAP182-COMP13-17-14"-18" (A3C0819-0)4)			Matrix: So	bil	Batch:	23C0928	
% Solids	82.9		1.00	%	1	03/24/23 06:38	EPA 8000D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: <u>Fife AG Fields</u> Project Number: **PAP182MAG.23E**

Project Manager: Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	nlorine Pe	sticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	40A (GPC)						Soi	1				
Blank (23C0987-BLK1)			Prepared	1: 03/24/23 ()8:47 Anal	yzed: 03/28	/23 11:39					C-05
EPA 8081B												
Aldrin	ND		2.00	ug/kg we								
alpha-BHC	ND		2.00	ug/kg we	et 1							
beta-BHC	ND		2.00	ug/kg we	et 1							
delta-BHC	ND		2.00	ug/kg we	et 1							
gamma-BHC (Lindane)	ND		2.00	ug/kg we	et 1							
cis-Chlordane	ND		2.00	ug/kg we	et 1							
trans-Chlordane	ND		2.00	ug/kg we	et 1							
4,4'-DDD	ND		2.00	ug/kg we	et 1							
4,4'-DDE	ND		2.00	ug/kg we	et 1							
4,4'-DDT	ND		2.00	ug/kg we	et 1							
Dieldrin	ND		2.00	ug/kg we	et 1							
Endosulfan I	ND		2.00	ug/kg we	et 1							
Endosulfan II	ND		2.00	ug/kg we	et 1							
Endosulfan sulfate	ND		2.00	ug/kg we								
Endrin	ND		2.00	ug/kg we	et 1							
Endrin Aldehyde	ND		2.00	ug/kg we								
Endrin ketone	ND		2.00	ug/kg we								
Heptachlor	ND		2.00	ug/kg we								
Heptachlor epoxide	ND		2.00	ug/kg we								
Methoxychlor	ND		6.00	ug/kg we								
Chlordane (Technical)	ND		60.0	ug/kg we								
Toxaphene (Total)	ND		60.0	ug/kg we								
Surr: 2,4,5,6-TCMX (Surr)		Reco	overy: 72 %	Limits: 42		Dilı	ution: 1x					
Decachlorobiphenyl (Surr)			126 %		-130 %		"					
LCS (23C0987-BS1)			Prepared	1: 03/24/23 ()8:47 Anal	yzed: 03/28	/23 11:56					C-05
EPA 8081B												
Aldrin	39.4		2.00	ug/kg we	et 1	50.0		79	45-136%			
alpha-BHC	37.9		2.00	ug/kg we		50.0		76	45-137%			
beta-BHC	38.8		2.00	ug/kg we		50.0		78	50-136%			
delta-BHC	44.1		2.00	ug/kg we		50.0		88	47-139%			
	44.1 38.6		2.00			50.0		88 77	47-139%			
gamma-BHC (Lindane)				ug/kg we								
eis-Chlordane	44.8		2.00	ug/kg we	et 1	50.0		90	54-133%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: Fife AG Fields Project Number: PAP182MAG.23E

Project Manager: Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	nlorine Pe	sticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	40A (GPC))					Soi	il				
LCS (23C0987-BS1)			Prepareo	d: 03/24/23 (08:47 Ana	lyzed: 03/28	/23 11:56					C-05
trans-Chlordane	44.2		2.00	ug/kg we	et 1	50.0		88	53-135%			
4,4'-DDD	54.3		2.00	ug/kg we	et 1	50.0		109	56-139%			
4,4'-DDE	51.0		2.00	ug/kg we	et 1	50.0		102	56-134%			
4,4'-DDT	63.3		2.00	ug/kg we	et 1	50.0		127	50-141%			
Dieldrin	52.1		2.00	ug/kg we	et 1	50.0		104	56-136%			
Endosulfan I	48.2		2.00	ug/kg we	et 1	50.0		96	53-132%			
Endosulfan II	54.7		2.00	ug/kg we	et 1	50.0		109	53-134%			
Endosulfan sulfate	55.9		2.00	ug/kg we	et 1	50.0		112	55-136%			
Endrin	61.5		2.00	ug/kg we	et 1	50.0		123	57-140%			
Endrin Aldehyde	45.6		2.00	ug/kg we	et 1	50.0		91	35-137%			
Endrin ketone	58.9		2.00	ug/kg we		50.0		118	55-136%			
Heptachlor	39.1		2.00	ug/kg we	et 1	50.0		78	47-136%			
Heptachlor epoxide	44.5		2.00	ug/kg we		50.0		89	52-136%			
Methoxychlor	69.8		6.00	ug/kg we		50.0		140	52-143%			
Surr: 2,4,5,6-TCMX (Surr)		Rec	overy: 73 %	Limits: 42		Dili	ution: 1x					
Decachlorobiphenyl (Surr)			122 %		-130 %		"					
Duplicate (23C0987-DUP1)			Prepared	d: 03/24/23 (08:47 Ana	lyzed: 03/28	/23 12:31					C-05
OC Source Sample: Non-SDG (A	3C0680-12R	E1)				-						
Aldrin	ND		2.30	ug/kg dr	y 1		ND				30%	
alpha-BHC	ND		2.30	ug/kg dr	•		ND				30%	
beta-BHC	ND		2.30	ug/kg dr	v 1		ND				30%	
delta-BHC	ND		2.30	ug/kg dr			ND				30%	
gamma-BHC (Lindane)	ND		2.30	ug/kg dr	-		ND				30%	
cis-Chlordane	29.4		2.30	ug/kg dr			26.5			11	30%	
trans-Chlordane	20.3		2.30	ug/kg dr	-		18.0			12	30%	
4,4'-DDD	ND		3.33	ug/kg dr	5		ND				30%	R-0
4,4'-DDE	ND		2.30	ug/kg dr	•		ND				30%	
4,4'-DDT	ND		2.30	ug/kg dr	-		ND				30%	
Dieldrin	72.9		2.30	ug/kg dr			64.8			12	30%	
Endosulfan I	ND		2.30	ug/kg dr	-		04.8 ND			12	30%	
Endosulfan II	ND		2.30	ug/kg dr			ND ND				30%	
Endosulfan sulfate Endrin	ND ND		2.30 2.30	ug/kg dr ug/kg dr	y 1		ND ND				30% 30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: <u>Fife AG Fields</u> Project Number: **PAP182MAG.23E**

Project Manager: Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	lorine Pe	sticides	by EPA 80)81B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/36	640A (GPC)						So	il				
Duplicate (23C0987-DUP1)			Prepared	l: 03/24/23 0	8:47 Ana	lyzed: 03/28	/23 12:31					C-05
QC Source Sample: Non-SDG (A	3C0680-12RE	<u>1)</u>										
Endrin Aldehyde	ND		2.30	ug/kg dr	y 1		ND				30%	
Endrin ketone	ND		2.30	ug/kg dr	y 1		ND				30%	
Heptachlor	ND		2.30	ug/kg dr	y 1		ND				30%	
Heptachlor epoxide	ND		2.30	ug/kg dr	y 1		ND				30%	
Methoxychlor	ND		6.89	ug/kg dr	y 1		ND				30%	
Toxaphene (Total)	ND		68.9	ug/kg dr	y 1		ND				30%	
Surr: 2,4,5,6-TCMX (Surr)		Rec	overy: 79 %	Limits: 42-	-129 %	Dilt	ution: 1x					
Decachlorobiphenyl (Surr)			122 %	55-	-130 %		"					
Duplicate (23C0987-DUP2)			Prepared	l: 03/24/23 0	08:47 Ana	lyzed: 03/29	/23 14:48					C-05
QC Source Sample: Non-SDG (A	3C0680-12RE	2)										
Chlordane (Technical)	254		68.9	ug/kg dr	y 1		223			13	30%	
Matrix Spike (23C0987-MS1)		<u>1)</u>	Prepared	1: 03/24/23 0	08:47 Ana	lyzed: 03/28	/23 13:23					C-05
EPA 8081B												
Aldrin	60.4		260	ug/kg dr	v 1			07				
alpha-BHC			2.68			67.0	2.04	87	45-136%			
	55.8		2.68	ug/kg dr	y 1	67.0	ND	83	45-137%			
beta-BHC	69.0		2.68 2.68	ug/kg dry ug/kg dry	y 1 y 1	67.0 67.0	ND ND		45-137% 50-136%			
delta-BHC	69.0 76.7		2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1	67.0 67.0 67.0	ND ND ND	83 103 115	45-137% 50-136% 47-139%	 		
delta-BHC gamma-BHC (Lindane)	69.0 76.7 58.0		2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0	ND ND ND ND	83 103 115 87	45-137% 50-136% 47-139% 49-135%	 		
delta-BHC gamma-BHC (Lindane) cis-Chlordane	69.0 76.7 58.0 73.2		2.68 2.68 2.68 2.68 2.68	ug/kg dry ug/kg dry ug/kg dry ug/kg dry	y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0	ND ND ND ND	83 103 115 87 109	45-137% 50-136% 47-139% 49-135% 54-133%	 		
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane	69.0 76.7 58.0 73.2 72.6		2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND	83 103 115 87 109 108	45-137% 50-136% 47-139% 49-135% 54-133% 53-135%	 	 	
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD	69.0 76.7 58.0 73.2 72.6 93.4	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND	83 103 115 87 109 108 139	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139%	 	 	
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE	69.0 76.7 58.0 73.2 72.6 93.4 91.2	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND	83 103 115 87 109 108 139 136	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134%	 	 	Q-
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134% 50-141%	 	 	Q- Q-
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Endosulfan I	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105 72.1	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157 108	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134% 50-141% 53-132%	 	 	
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Endosulfan I Endosulfan II	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105 72.1 83.7	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157 108 125	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134% 50-141% 53-132% 53-134%	 		
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Endosulfan I Endosulfan II Endosulfan sulfate	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105 72.1 83.7 84.6	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157 108	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134% 50-141% 53-132%	 		Q-
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Endosulfan I Endosulfan II	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105 72.1 83.7	 	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157 108 125	45-137% 50-136% 47-139% 49-135% 54-133% 53-135% 56-139% 56-134% 50-141% 53-132% 53-134%			Q-
delta-BHC gamma-BHC (Lindane) cis-Chlordane trans-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Endosulfan I Endosulfan II Endosulfan sulfate	69.0 76.7 58.0 73.2 72.6 93.4 91.2 105 72.1 83.7 84.6		2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68	ug/kg dr ug/kg dr	y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1 y 1	67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	ND ND ND ND ND ND ND ND ND	83 103 115 87 109 108 139 136 157 108 125 126	45-137% 50-136% 47-139% 49-135% 53-135% 53-135% 56-139% 56-134% 53-132% 53-134% 55-136%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	nlorine Pe	sticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0987 - EPA 3546/364	OA (GPC)	1					So	il				
Matrix Spike (23C0987-MS1)			Prepared	1: 03/24/23 (8:47 Ana	lyzed: 03/28	/23 13:23					C-05
QC Source Sample: Non-SDG (A3	C0825-02R	E1)										
Heptachlor	59.9		2.68	ug/kg dr	y 1	67.0	ND	89	47-136%			
Heptachlor epoxide	68.7		2.68	ug/kg dr	y 1	67.0	ND	103	52-136%			
Methoxychlor	124		8.03	ug/kg dr	y 1	67.0	ND	185	52-143%			Q-0
Surr: 2,4,5,6-TCMX (Surr)		Rec	overy: 73 %	Limits: 42	-129 %	Dili	ution: 1x					
Decachlorobiphenyl (Surr)			125 %	55-	-130 %		"					
Matrix Spike (23C0987-MS2)			Prepareo	1: 03/24/23 ()8:47 Ana	lyzed: 03/28	/23 16:42					C-05
QC Source Sample: Non-SDG (A3	C0825-02R	<u>E2)</u>										
EPA 8081B												
Dieldrin	444		13.4	ug/kg dr	y 5	67.0	281	243	56-136%			Q-0

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percent	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0928 - Total Solids (Dry Weigl	nt)					Soi	l				
Duplicate (23C0928-DUP1)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	<u>C0680-12)</u>											
% Solids	86.7		1.00	%	1		86.8			0.07	10%	
Duplicate (23C0928-DUP2)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
<u>QC</u> Source Sample: Non-SDG (A3	C0680-13)											
% Solids	83.9		1.00	%	1		84.1			0.1	10%	
Duplicate (23C0928-DUP3)			Prepared	: 03/23/23	13:39 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	<u>C0680-14)</u>											
% Solids	86.2		1.00	%	1		86.0			0.2	10%	
Duplicate (23C0928-DUP4)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	<u>C0846-01)</u>											
% Solids	72.4		1.00	%	1		72.2			0.3	10%	
Duplicate (23C0928-DUP5)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
QC Source Sample: Non-SDG (A3	C0846-02)											
% Solids	87.5		1.00	%	1		89.2			2	10%	
Duplicate (23C0928-DUP6)			Prepared	: 03/23/23	20:51 Anal	yzed: 03/24/	/23 06:38					
<u>QC</u> Source Sample: Non-SDG (A3	<u>C0846-03)</u>											
% Solids	73.4		1.00	%	1		73.6			0.3	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B								
<u>Prep: EPA 3546/3640A (GPC)</u>					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 23C0987								
A3C0819-01RE1	Soil	EPA 8081B	03/16/23 15:30	03/24/23 08:47	10.02g/10mL	10g/5mL	2.00	
A3C0819-02RE1	Soil	EPA 8081B	03/16/23 15:40	03/24/23 08:47	10.13g/10mL	10g/5mL	1.97	
A3C0819-03RE1	Soil	EPA 8081B	03/16/23 16:00	03/24/23 08:47	10.07g/10mL	10g/5mL	1.99	
A3C0819-04RE1	Soil	EPA 8081B	03/16/23 15:50	03/24/23 08:47	10.05g/10mL	10g/5mL	1.99	

Percent Dry Weight								
Prep: Total Solids (D	<u>)ry Weight)</u>				Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 23C0928								
A3C0819-01	Soil	EPA 8000D	03/16/23 15:30	03/23/23 13:39			NA	
A3C0819-02	Soil	EPA 8000D	03/16/23 15:40	03/23/23 13:39			NA	
A3C0819-03	Soil	EPA 8000D	03/16/23 16:00	03/23/23 13:39			NA	
A3C0819-04	Soil	EPA 8000D	03/16/23 15:50	03/23/23 13:39			NA	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070 Project:Fife AG FieldsProject Number:PAP182MAG.23EProject Manager:Steve Omo

<u>Report ID:</u> A3C0819 - 04 06 23 1137

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

BB&A Environmental - Wilsonville 25195 SW Parkway Ave, Suite #207 Wilsonville, OR 97070

Project: Fife AG Fields

Project Number: PAP182MAG.23E Project Manager: Steve Omo <u>Report ID:</u> A3C0819 - 04 06 23 1137

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex	Laboratories	

Matrix	Analysis	TNI_ID Analyte	TNI_ID	Accreditation
		All reported analytes are included in Apex Laboratories' current ORELAP scope.		

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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BB&A Environmental - Wilsonville Fife AG Fields Project: 25195 SW Parkway Ave, Suite #207 Project Number: PAP182MAG.23E **Report ID:** Wilsonville, OR 97070 Project Manager: Steve Omo A3C0819 - 04 06 23 1137 Ю Project # PAP182MAG.23E 200 RECEIVED BY: Signature: Printed Name Company: APY OKH HOLD НОГР НОГД НОГD 1808 NINGUER Z-0071 EMAIL DRAFT RESULTS 1200- COLS TCLP Metals (8) **WALYSIS REOUEST** Se, Ag, Va, Tl, V, Zn Hg, Mg, Ma, Mo, Vi, K, Al, Sb, As, Ba, Be, Cd Al, Sb, As, Ba, Be, Cd Date: Time; Project Name: FIFE AG Fields Priority Metals (13) RCRA Metals (8) SPECIAL INSTRUCTIONS: Fax: 8081 Chlor. Pest CHAIN OF CUSTODY 8085 PCBs RELINQUISHED BY: SHA9 MIS 0728 503-570-9484 rinted Name \$260 VOCs gnature: mpany 8260 Halo VOCs 3/22/23 8260 RBDM VOCs Phone: ESA N + X318 **XD-H4LWN** 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333 XQ-HJJAAN loum NWTPH-HCID Steve Omo 72 HR Other: RECEIVED BY: ARSY # OF CONTAINERS Normal Turn Around Time (TAT) = 7-10 Business Days -. Company: XIJITAM s S ŝ Project Mgr: SAMPLES ARE HELD FOR 30 DAYS 5 DAY 48 HR 15:40 16:00 15:30 15:50 TIME Wilsonville, OR 97070 3/16/2023 3/16/2023 3/16/2023 3/16/2023 DATE 3/22/2023 Time: 4 DAY 24 HR # 01 8V7 Date: Address: 25195 SW Parkway Ave, #207 **IAT Requested (circle)** AP182 - COMP13-17 - 14"-18" **BB&A** Environmenta PAP182 - COMP7-12 - 14"-18" PAP182 - COMP13-17 - 0"-6" APEX LABS PAP182 - COMP7-12 - 0"-6" OR mpled by: Steve Omo &A ENVIRONMENTA ite Location: WA EPHEN OMO AMPLE ID Other ted Name Company:

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<u>BB&A Environmental - Wilsonvill</u> 25195 SW Parkway Ave, Suite #20' Wilsonville, OR 97070		<u>Report ID:</u> A3C0819 - 04 06 23 1137
Project/Project Delivery Info Date/time record Delivered by: Cooler Inspect Chain of Cust Signed/dated I Temperature (Custody seals* Received on id Temp. blanks* Ice type: (Gel/ Condition (In/ Cooler out of temperators Sample Inspect All samples in	eived: $3 122123 @ 1137 By: WP$ Apex_Client_KESS_FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other_ ction Date/time inspected: $3 122123 @ 1140 By: RVH$ ody included? Yes \times No by client? Yes \times No Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler (°C) $26? (Y/N) N? (Y/N) N? (Y/N) QL? (Y/N) QL? (Y/N) QL? (Y/N) N? (Y/N) N$	<u>#7</u>
COC/container Containers/vol Do VOA vials Comments Water samples	r discrepancies form initiated? Yes No X	
Labeled by: RMP	Witness: Cooler Inspected by: DWV KUP Form Y-003 R	

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