



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

May 15, 2014
Project No. 2094-6310-01

Mr. Jerry Wickham
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Well Destruction Report**
6310 Houston Place, Dublin, California 94568
ACEHD Case No. RO0002862, GeoTracker ID T0600113164

Dear Mr. Wickham:

Stratus Environmental, Inc. (Stratus) has prepared this *Well Destruction Report*, on behalf of Mr. Cary Grayson, for the facility located at 6310 Houston Place, Dublin, California (the Site, see Figure 1). At the request of Alameda County Environmental Health Department (ACEHD), Stratus recently directed the destruction of seven groundwater monitoring wells at the site prior to closure of an environmental case at the property.

Well Destructions

Pre-Field Activities

Prior to initiating well destruction work, a drilling permit was obtained from Zone 7 Water Agency (Zone 7); included in Appendix A. Drilling locations were marked in advance, and Underground Service Alert (USA), ACEHD, Zone 7, Mr. Grayson, and the property tenants were notified of the work schedule at least 48 hours in advance.

Field Activities

On April 14, 2014, a C-57 licensed well contractor (All Well Abandonment, License # 848359) pressure-grouted seven groundwater monitoring wells (DW-1 through DW-7); the work was conducted in the presence of a Stratus geologist. Prior to destruction, each well was sounded to measure total depth; all wells were originally constructed to 17 feet below grade surface (bgs), which was confirmed by the soundings. Pressure grouting was completed by filling each well casing with neat Portland cement, then pressurizing the casing to 25 pounds per square inch for five minutes each. Following pressurization, the well was refilled with cement to replace any that was pumped into the well's filter pack, then the top 5 feet of well casing was over-drilled using a truck mounted drilling rig equipped with a 8-inch diameter hollow stem auger and guide bit. After over-drilling, the

boreholes were backfilled to surface grade with neat cement and capped with concrete matching the surface grade. A data sheet from the field work is included as Appendix B.

Once the work was completed, Stratus, in conjunction with All Well Abandonment, submitted well destruction forms to the Department of Water Resources (DWR). Copies of these forms will be provided to you upon request.

Waste Management

Drill cuttings and rinseate wastewater generated during the drilling activities were contained in a DOT-approved 55-gallon steel drum. A sample of the drill cuttings was submitted for analytical testing in order to profile well destruction debris for proper disposal. The drums were appropriately labeled and stored at the site pending proper disposal. Stratus retained Instrat, Inc. of Rio Vista, California to transport the drummed waste to a licensed facility for proper disposal; a copy of the waste disposal manifest is included as Appendix C.

Stratus representatives, whose signatures appear below, declare under penalty of perjury, that the information contained in the attached report are true and correct to the best of our knowledge. If you have any questions or comments concerning this document, or the site in general, please contact Trevor Hartwell at (530) 313-9966.

Sincerely,

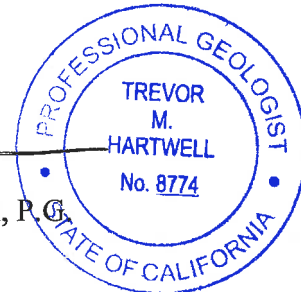
STRATUS ENVIRONMENTAL, INC.



Allan Dudding
Project Geologist



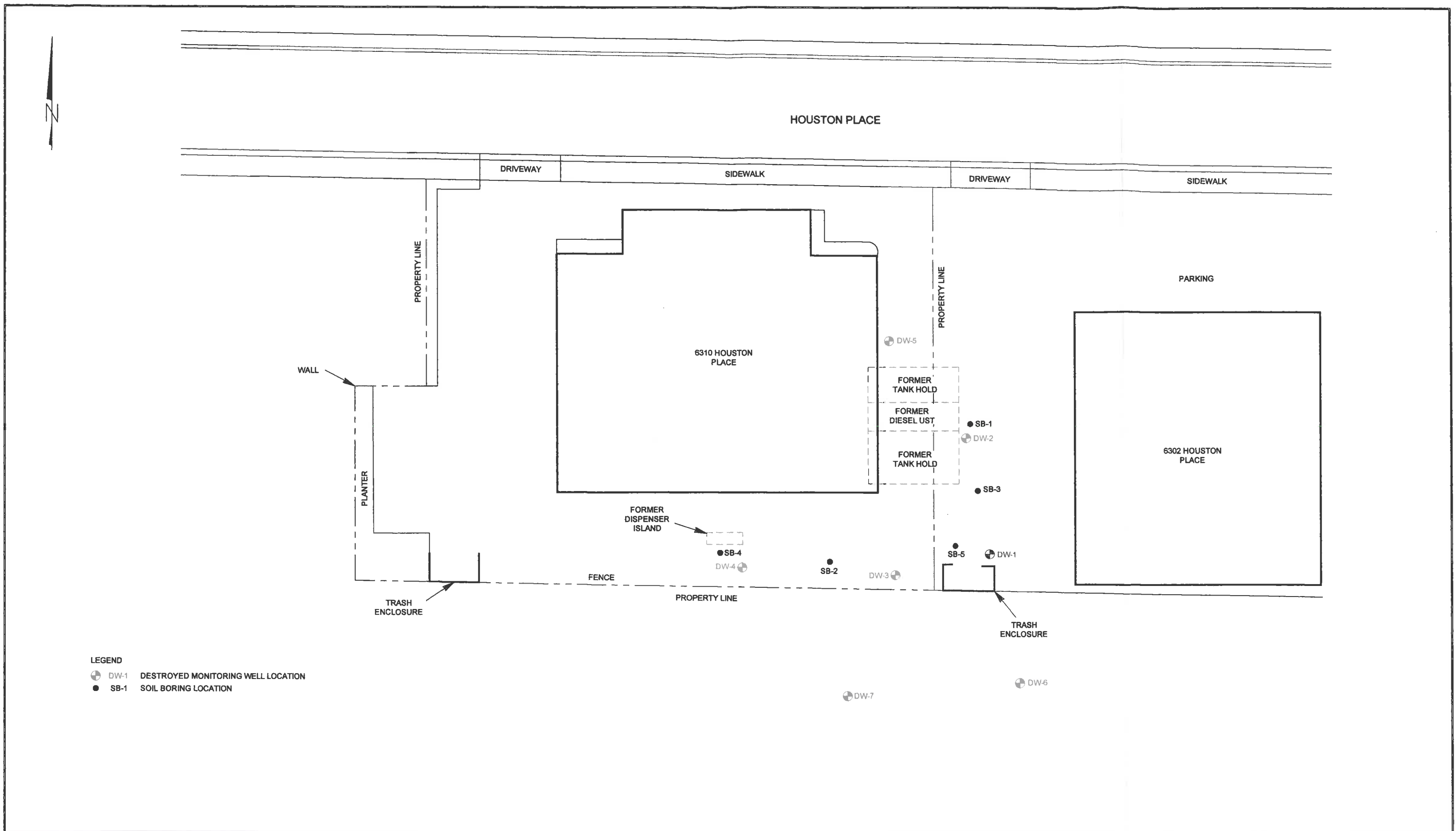
Trevor M. Hartwell, P.G.
Project Manager



Attachments:

Figure 1	Site Plan
Appendix A	Drilling Permit
Appendix B	Field Data Sheet
Appendix C	Waste Disposal Manifest

cc: Mr. Cary Grayson (via email carybgrayson@gmail.com)
Ms. Cherie McCaulou



LEGEND

- ⊕ DW-1 DESTROYED MONITORING WELL LOCATION
- SB-1 SOIL BORING LOCATION



6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

SITE PLAN

FIGURE

1

PROJECT NO.
2094-6310-01

APPENDIX A
DRILLING PERMIT



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6310 Houston Place, Dublin, CA

PERMIT NUMBER 2014050
WELL NUMBER 3S/IE-6C19 to 6C25 (DW-1 to DW-7)
APN 941-0550-071-00

Coordinates Source _____ ft. Accuracy _____ ft.
LAT: _____ ft. LONG: _____ ft.
APN 941-550-71

PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT
Name Cary Grayson
Address 6310 Houston Place Phone _____
City Dublin, CA Zip 94568

- A. GENERAL
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
 3. Permit is void if project not begun within 90 days of approval date.
 4. Notify Zone 7 at least 24 hours before the start of work.

APPLICANT
Name Stratus Environmental, Inc.
Email adudding@stratusinc.net Fax 530-676-6005
Address 3330 Cameron Park Dr. #550 Phone 916-837-1688
City Cameron Park, CA Zip 95682

- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction _____ Geotechnical Investigation _____
Well Destruction Contamination Investigation _____
Cathodic Protection _____ Other _____

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:
Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring _____
Dewatering _____ Other _____

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push _____ Other _____

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY All Well Abandonment
9245 Beatty Drive, Suite A, Sacramento, CA 95826
DRILLER'S LICENSE NO. 848359

- F. WELL DESTRUCTION. See attached.

WELL SPECIFICATIONS:
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 2 in. Depth 17 ft.
Surface Seal Depth 4 ft. Number 7

- G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

SOIL BORINGS:
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE April 2014
ESTIMATED COMPLETION DATE 2 days

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wymah Hong Date 4/7/14
Wymah-Hong

APPLICANT'S SIGNATURE [Signature] Date 4/2/14

ATTACH SITE PLAN OR SKETCH

APPENDIX B
FIELD DATA SHEET



2.72 + 7.8

PRESSURE GROUT

Project Name:

Bay Counties

Project No:

2014-680-01

Project Address:

630 Houston Place

City:

Dublin

Status Personnel:

AWA

Drilling Company:

AWA

Driller:

Regulatory Personnel:

Zone 7

Date:

4/14/14

Well ID	Installed Depth (ft)	Screen Length (ft)	Measured Depth (ft)	DTW (ft)	Grout (gal)	Pressure (psi)	Start Time	End Time	Drilled out (ft)	Cap (ft)	Surface completion
DW-1	17	10	17	~6	25	25	5 min.	—	5'		Concrete
DW-2	17	10	17	~6	20	25	5 min.	—	5'		
DW-5	17	10	17	~6	25	25	5 min.	—	5'		
DW-3	17	10	17	~6	15	25	5 min.	—	5'		
DW-4	17	10	17	~6	1520	25	5 min.	—	5'		
DW-6	17	10	17	~6	20	25	5 min.	—	5'		
DW-7	12	10	12	~6	20	25	5 min.	—	5'		

0.16 = gallons of grout per foot of 2" well

0.78 = gallons of grout per foot of 8" filter pack

0.65 = gallons of grout per foot of 4" well

1.22 = gallons of grout per foot of 10" filter pack

Notes:

10.52 gal grout required

APPENDIX C
WASTE DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address		BAY COUNTIES PETROLEUM 6310 HOUSTON PLACE DUBLIN, CA		STRATUS ENV	
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
INSTRAT INC				B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
MISTINE, INC. 1105 CARPORT RD. RIO VISTA, CA 94571				F. Facility's Phone	
				(707) 374-9854	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a.			No.	Type	
NON-HAZ SOIL + DEBRIS			1	DRM	500 LBS
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
BROWN, SOIL + DEBRIS, NO ODOR					
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name		Signature		Date	
				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
Patrick McHugh		<i>[Signature]</i>		5 12 14	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	
MICHAEL WHITEHEAD		<i>[Signature]</i>		5 12 14	

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

