January 28, 2016

Ms. Dilan Roe
Site Cleanup Program Manager
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94501-6577

Subject: **Dublin Apartments Permeable Reactive Barrier Construction Completion Certification**
Former Crown Chevrolet North Parcel
7544 Dublin Boulevard
Dublin, California
Site Cleanup Program Case No. RO0003014

Dear Ms. Roe:

Enclosed please find a letter entitled *Dublin Apartments Permeable Reactive Barrier Construction Completion Certification* for the Former Crown Chevrolet North Parcel site at 7544 Dublin Boulevard, in Dublin, California (Site Cleanup Program Case No. RO0003014, GeoTracker Global ID T10000001616). This document was prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., on behalf of BWD Dublin LLC.

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Please contact me at (408) 680-4938 or Avery Whitmarsh of Amec Foster Wheeler at (510) 663-4154 if you have any questions regarding this report.

Sincerely yours,

Pete Beritzhoff
BWD Dublin LLC

Attachment: Dublin Apartments Permeable Reactive Barrier Construction Completion Certification

January 28, 2016

Project OD14170800.02.4

Ms. Dilan Roe
Site Cleanup Program Manager
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94501-6577

Subject: **Dublin Apartments Permeable Reactive Barrier**
Construction Completion Certification
Former Crown Chevrolet North Parcel
7544 Dublin Boulevard
Dublin, California
Site Cleanup Program Case No. RO0003014

Dear Ms. Roe:

Amec Foster Wheeler Environment & Infrastructure, Inc. ("Amec Foster Wheeler") has reviewed the *Completion Report, Permeable Reactive Barrier (PRB)*("Construction Completion Report;" Attachment 1)[1] submitted by Magnus Pacific LLC. Amec Foster Wheeler hereby certifies that PRB construction at 7544 Dublin Boulevard, Dublin, California (the "Site") has fulfilled the requirements for quality that were presented in the technical specifications and design drawings ("Construction Documents") and the *Vapor Mitigation and Permeable Reactive Barrier Basis of Design Report* (Design Report).[2] This certification letter has been prepared pursuant to the requirements outlined in the Design Report and the *Construction Quality Assurance Plan* ("CQA Plan").[3] The purpose of this letter is to certify the construction of the PRB only; a vapor mitigation system currently undergoing construction at the Site will be certified separately following its construction and commissioning.

The PRB construction consisted of a 147-foot-long trench excavated to approximately 30 feet below ground surface that was backfilled with a mixture of zero valent iron (ZVI) and sand treatment media and capped with a controlled density fill (sand cement slurry). The PRB was constructed by Magnus Pacific ("Subcontractor"), a subcontractor to the general contractor, ZCON Builders ("Contractor"), general contractor for the development project, on behalf of the owner, Dublin Apartments Properties LLC ("Owner"). Amec Foster Wheeler prepared the CQA Plan prior to PRB construction and implemented the CQA Plan during construction. CQA activities were performed by Mr. Douglas Bablitch, PE (CQA Manager and Design Engineer), and Ms. Hilary Nevis (CQA Engineer).

Amec Foster Wheeler staff was present at the Site during critical construction activities including, but not limited to, mobilization, construction layout, excavation, treatment media mixing, backfill placement, and PRB trench development. Amec Foster Wheeler CQA staff performed the following duties to satisfy the quality assurance requirements set forth in the CQA Plan:

Amec Foster Wheeler Environment & Infrastructure, Inc.
180 Grand Avenue, Suite 1100
Oakland, California 94612-3066
USA
Tel (510) 663-4100
Fax (510) 663-4141
amecfw.com

- Reviewed the pertinent pre-construction submittals called out in the October 9, 2015, *Dublin Apartments Pre-Construction Submittal Review for Permeable Reactive Barrier* letter from Amec Foster Wheeler to Alameda County Environmental Health.[4]
- Participation in PRB pre-construction conference and other Site meetings with the Subcontractor, Contractor, and Owner throughout the construction duration.
- Performed audits of the Contractor Quality Control Plan[5] ("CQC Plan") performance throughout PRB construction.
- Reviewed daily field memos and CQC Plan documentation, such as magnetic separation test results from samples collected before and during PRB media placement and ZVI/sand mixture weights per batch of PRB media.
- Reviewed and approved Magnus Pacific's Construction Completion Report (Attachment 1).

Amec Foster Wheeler hereby certifies that the PRB construction was performed consistent with the requirements of the Construction Documents. Deviations from the Construction Documents received approval from the Design Engineer, Contractor, and Owner, and are documented in Section 4.0 of Attachment 1. Photographs documenting construction activities are included in Attachment 2 of this letter.

Sincerely yours,
Amec Foster Wheeler, Environment & Infrastructure, Inc.

Douglas C. Bablitch

Douglas C. Bablitch, PE C64096
Principal Engineer
Direct Tel.: 510.663.4169
E-mail: doug.bablitch@altrmecfw.com

Hilary Nevis

Hilary Nevis, PE C85061
Environmental Engineer
Direct Tel.: 510.663.4167
E-mail: hilary.nevis@amecfw.com

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Attachments: 1 – Completion Report, Permeable Reactive Barrier
2 – Selected Construction Photographs

cc: Pete Beritzhoff, Bay West Development
Tino Maestas, P.E., Magnus Pacific LLC

[1] Magnus Pacific, LLC., 2015. Completion Report, Permeable Reactive Barrier (PRB), Dublin Apartments – Crown Chevrolet North Parcel, 7544 Dublin Blvd, Dublin, California, November 5.
[2] Amec Foster Wheeler, 2015. Permeable Reactive Barrier Basis of Design Report, Former Crown Chevrolet North Parcel, 7544 Dublin Boulevard, Dublin, California, June 11.
[3] Amec Foster Wheeler, 2015. Construction Quality Assurance Plan, Permeable Reactive Barrier, Former Crown Chevrolet North Parcel, 7544 Dublin Boulevard, Dublin, California, June 11.
[4] Amec Foster Wheeler, 2015.Dublin Apartments Pre-Construction Submittal Review for Permeable Reactive Barrier, Dublin Apartments – Crown Chevrolet North Parcel, 7544 Dublin Blvd, Dublin, California, October 9.
[5] Magnus Pacific, LLC, 2015. Contractor Quality Control Plan Permeable Reactive Barrier (PRB), Dublin Apartments – Crown Chevrolet North Parcel, 7544 Dublin Blvd, Dublin, California, October 8.

ATTACHMENT 1

Completion Report, Permeable Reactive Barrier (PRB)

COMPLETION REPORT

PERMEABLE REACTIVE BARRIER (PRB)

DUBLIN APARTMENTS –

CROWN CHEVROLET NORTH PARCEL

7544 DUBLIN BLVD, DUBLIN, CALIFORNIA

NOVEMBER 5, 2015

Prepared for:

PRIME CONTRACTOR
Zakskorn Construction Company
Dba ZCON Builders
780 West Grand Ave.
Oakland, CA 94612

OWNER
Dublin Apartment Properties LLC
2 Henry Adams St, Ste 450
San Francisco, CA 94103

Prepared by:

Magnus Pacific, LLC.
6558 Lonetree Blvd.
Rocklin, CA 95765
Phone: (916) 462-6400

Table of Contents

Attachments

1.0 INTRODUCTION

Magnus Pacific, LLC (Magnus) has completed the Permeable Reactive Barrier at the Dublin Apartments Project site in accordance with Technical Specification 025010 dated June 9th 2015, PRB Plan Drawings dated June 2015, Magnus Pacific PRB Project Execution Plan (Submittal No. 025010-0001.1) dated October 5th 2015, Magnus Pacific Contractor Quality Control Plan (Submittal No. 025010-0002.2) dated October 8th 2015, and approved project variations/deviations. This completion report provides a synopsis of the work and summarizes the quality control completed throughout the project.

1.1 Site Description

The Site was developed in 1968 as Crown Chevrolet, a car dealership with auto body shops, on land that appears to have been previously used for agricultural purposes. Operations as a car dealership and auto body shop continued from 1968 through 2013. The property was sold to BWD Dublin in the fall of 2014, and the site buildings were demolished in December 2014 in preparation for redevelopment.

The Site is located in the northwest corner of the intersection of Highway 680 and Highway 580 in Dublin, California bordered to the north by Dublin Boulevard, to the West by Golden Gate Drive, and to the South by St Patrick Way.

1.2 Project Overview

Site redevelopment is scheduled to begin in summer 2015. The redevelopment will include mixed residential/commercial buildings at the site, comprising 313 apartments (a total of approximately 323,000 gross square feet in multi-unit structures) and 17,000 square feet of retail space at ground level along Dublin Boulevard; some of the apartments will be located above the retail space. An approximately 230,000-square-foot parking garage is planned for the eastern central portion of the site.

The absolute and functional corrective action objectives (CAOs) for the site were established in the approved FS/CAP for the protection of human health and the environment and are listed in Section 2.2 of the Amec Foster Wheeler Design Report. To address the first CAO and mitigate the risk to future site residents from potential vapor intrusion of VOCs in soil vapor to indoor air, the FS/CAP recommended the installation of a PRB to treat impacted groundwater migrating onto the site.

The PRB consists of a trench installed along the up-gradient site boundary that was backfilled with a mixture of granular Zero Valent Iron (ZVI) and sand where natural hydraulic gradients adjacent to and beneath the site will cause PCE-affected groundwater to flow through the PRB to reduce Volatile Organic Compounds (VOC) concentrations.

The PRB design consists of the following elements:

- A 24-inch-wide, 146-foot-long continuous trench that is backfilled with ZVI/sand treatment media located near the upgradient site boundary along Golden Gate Drive.
- The PRB was installed to approximately 29 feet bgs, including a 1-foot key into an existing clay layer observed from approximately 28 to 30 feet bgs.
- The treatment media was prepared in a 55% / 45% ZVI/sand ratio by volume, creating an equivalent 1.1-foot-thick treatment zone of ZVI.

1.3 Project Milestone Dates

10/05/2015 – Began mobilization and site setup.
10/12/2015 – Began excavation of the biopolymer trench starting at Sta. 11+46.
10/13/2015 – Began placement of Zero Valent Iron (ZVI)/sand media at Sta. 11+46.
10/15/2015 – Completed excavation of biopolymer trench at Sta 10+00.
10/17/2015 – Completed ZVI/sand backfill placement via 18-inch tremie pipe.
10/19/2015 – Completed installation of the Controlled Density Fill (CDF) cap
10/26/2015 – Began load-out of excavation trench spoils for T&D at Potrero Hills Landfill.
10/27/2015 – Began discharge of wastewater to the Dublin San Ramon Services District (DSRSD) sanitary sewer.
10/28/2015 – Completed load-out of excavation trench spoils for T&D at Potrero Hills Landfill.
10/29/2015 – Completed discharge of wastewater to the DSRSD sanitary sewer.
10/29/2015 – Substantially complete with Site breakdown and demobilization.

2.0 WORK DESCRIPTION

2.1 Permeable Reactive Barrier (PRB)

Magnus completed the construction of the Permeable Reactive barrier using the biopolymer slurry trench installation method using a Komatsu PC490 excavator equipped with a specialty long stick and a 28-inch bucket to excavate the trench. The trench alignment was staked-out by Carlson, Barbee & Gibson, Inc prior to excavation. The trench alignment was dictated by the planned layout of the curb and gutter where the eastern side of the PRB trench aligned with the future alignment of the gutter pan. When Magnus proposed 28-inch wide excavation versus the design width of 24-inches, the additional 4-inches of the PRB trench was shifted west or street side assuring that the eastern side of the trench was aligned with the gutter pan as originally designed.

A field variation in the trench alignment was made from Sta. 11+46 to Sta. 11+29 to straighten the design curve to within limitations of the excavator. AMEC Foster Wheeler provided design elevations for each 10-foot station increment for the bottom of the PRB. Magnus over-excavated from +0.5 to +1.8 FT deeper than the design elevation at as shown in the as-built profile. The vertical datum referenced in the excavation bottom elevations is NGVD29. Magnus excavated a total of 4,364 square feet using the biopolymer slurry trench method. The survey as-built and profile of the PRB is enclosed in Attachment A.

Magnus mixed a total of (44) 5.9-CY batches of ZVI/sand media and (1) 1.1-CY batch of ZVI/sand media that was backfilled and placed in the trench via an 18-inch tremie pipe. Additional ZVI was added to individual batches that did not pass initial magnetic separation test. Reference Section 3.0 for Quality Control testing of the ZVI and sand batch proportioning. Mixing of the ZVI/sand was completed using ready-mix trucks with batches consisting of 12,000-lbs of zero-valent iron to 7,400-lbs of sand. This mix ratio by weight was derived by using measured bulk densities of each material performed by Geo-Logic Associates to convert the design iron equivalent thickness from volume to weight. The design ZVI to sand mix was 55% / 45% ZVI to sand by volume. For a 24-inch trench, the equivalent thickness of iron is 1.1 feet (at 55%). When Magnus proposed a 28-inch bucket, the designed equivalent thickness of iron is the same at 1.1 feet, however, the additional volume by the wider excavation is then accommodated by an increase in sand. For a 28-inch trench, the new design volume is 47% / 53% ZVI to sand by volume. Converting this volume using the measured bulk densities, the ZVI to sand batch proportioning is 62% Iron to 38% sand by weight. Pre-construction testing of the iron aggregate and sand included material gradations and bulk densities per each material and hydraulic conductivity per each material and as-mixed per the original design mix of 55% / 45% ZVI to sand by volume. The pre-construction test data is enclosed in Appendix B.

Table 1 – ZVI/Sand Design Proportioning

Trench Width	ZVI/Sand by Volume	ZVI/Sand by Weight
24-inches	55% / 45%	69% / 31%
28-inches	47% / 53%	62% / 38%

ZVI bags were pre-weighed and certified in 3,000-lb bulk bags as received from Connolly-GPM, which was considered an accurate weight. The Certificate of Analysis for the iron manufactured by Connolly-GPM are enclosed in Attachment C. Sand received from Silica Resources, Inc. was pre-bagged in 2,000-lb bulk bags, however, with a larger deviation of the actual weight. Magnus used portable scales to measure the weight of each bag of sand before loading into the ready-mix truck and the final balance of sand was metered by a vertical screw auger to ensure a consistent method of proportioning the sand. Water was added to the ZVI/sand mixture after loading of iron and sand into the ready-mix truck.

ZVI/sand placement was performed using the chute of the read-mix truck directly discharging PRB media into the hopper of the tremie pipe. The tremie pipe fall height was limited to no more than 5 feet of drop height. As the PRB backfill built up in the trench, the tremie pipe was moved horizontally down-station along the trench alignment. PRB backfill was placed to a minimum elevation of 331.0 feet NGVD29 as shown in the as-built profile. Magnus installed (6) 4-inch diameter re-circulation pipes spaced on 25-foot intervals along the trench alignment with one at each end of the trench that are perforated on the bottom 20 feet of the pipe. Displaced biopolymer slurry from ZVI/sand placement was pumped out the trench into an 18,000-gallon frac tank pending slurry breakdown and disposal to the sanitary sewer.

2.2 Permeable Reactive Barrier Cap

Upon verifying that the PRB backfill was placed to a minimum elevation of 331.0 feet NGVD29, Magnus installed a single layer of Mirafi 180 NC, 8-oz non-woven geotextile on the top surface of the PRB backfill. The Mirafi 180 NC is 15-feet wide and 300-feet long per roll. The Mirafi 180 NC product data sheet is enclosed in Attachment D. A single width of the roll was placed in the trench allowing the extra width of the roll to extend up the sidewalls approximately 6 feet on each side. The geotextile was held in place using speed-shoring that was placed in the trench to facilitate Controlled Density Fill (CDF) placement. (3) 8-inch diameter HDPE (SDR-17) pipes were placed at Sta. Nos. 11+20, 10+80, and 10+40 for future monitoring well conductor casings. The geotextile was cut with an “X” at each protrusion location for each 4-inch diameter re-circulation pipe and the (3) 8-inch diameter conductor casings.

CDF backfill was manufactured by RC Ready Mix Co consisting of a 1-sack Portland Cement sand slurry. The CDF mix design and delivery batch tickets are enclosed in Attachment E. Magnus placed (11) 9-CY batches of CDF up to elevation 340.0 feet NGVD29 in less than a 5 hour duration as referenced by the batch tickets. Displaced biopolymer slurry from CDF placement was pumped out of the trench into an 18,000-gallon frac tank pending slurry breakdown and disposal to the sanitary sewer. The 8-inch diameter HDPE conductor casings were capped with an HDPE slip cap, the surrounding soil re-graded and a 3-foot diameter 1-inch thick steel plate placed over each monitoring well casing and surveyed by Carlson, Barbee & Gibson, Inc. The as-built survey of the PRB alignment and locations of the monitoring well casings is enclosed in Attachment A.

2.3 Slurry Breakdown

Magnus began breaking of the biopolymer slurry upon final placement of ZVI/sand. The biopolymer slurry was being re-circulated in the trench throughout the last day of final ZVI/sand placement. Trench development continued throughout CDF cap placement and continued until a minimum viscosity measurement of less than 30 marsh funnel seconds (mfs) was achieved in each of the six re-circulation pipes. Magnus successfully demonstrated that there is no permanent decrease in hydraulic conductivity by conducting viscosity measurements at a minimum of once per 25 feet of PRB installed. Final breakdown and documentation of the biopolymer slurry demonstration is enclosed in Attachment F.

Re-circulation pipes were abandoned after each location had demonstrated that the biopolymer slurry was broken to less than 30 mfs. Iron aggregate was placed in a 100% concentration in each of the six recirculation pipes from the bottom of the pipe up to a minimum elevation of 331.0 feet NGVD29. The pipes were then filled with 1,500-psi sand cement slurry that was supplied by Central Concrete Supply Co from the top of the PRB media to elevation 340.0 feet NGVD29. The mix design for 1,500-psi sand cement slurry is enclosed in Attachment G.

2.4 Waste Management and Disposal

Magnus constructed a lined Soil Stockpile and Staging cell for consolidation of excavation trench spoils and temporary staging until the waste was profiled and accepted for disposal at a regulated disposal facility. Magnus disposed of 742.56 Tons of waste materials (including disposal of the liner materials) at the Potrero Hills Landfill located at 3675 Potrero Hills Lane, Suisun, CA 94585. The Special Waste Profile is enclosed in Attachment H along with the disposal manifests and disposal weight log.

Magnus also contained approximately 36,000-gallons of wastewater consisting biopolymer slurry that was captured during displacement of PRB media and CDF placement pending slurry breakdown and disposal to the Dublin San Ramon Services District (DSRSD) sanitary sewer. Magnus received a permit for disposal by the DSRSD and the wastewater was tested in

compliance with the permit. The analytical testing indicated a Total Dissolved Solids concentration (TDS) greater than the permit allowance of 1,000 mg/L. Magnus submitted a request for waiver and subsequently received approval from the DSRSD to dispose of the wastewater with a TDS concentration greater than the permit allowance. The DSRSD Sewer Pretreatment Program Industrial Wastewater Discharge Permit and wastewater disposal log are enclosed in Attachment I.

3.0 QUALITY CONTROL

Subcontractor Daily Quality Control reports, submitted throughout the work, detail the work completed on each day and the quality control measures used to monitor and control the work.

In total, 4,364 vertical square feet (VSF) of excavation was completed under the biopolymer slurry trench method and approximately 3,119 VSF of ZVI/sand media was placed as measured by soundings. Magnus batched approximately 260.7 cubic yards of ZVI/sand media that was placed in the trench that consists of 270 tons of iron and 156 tons of sand. Magnus purchased a total of 283.5 TN of aggregate iron and 9 bags (13 TN) were remaining on-site at the conclusion of the project. Similarly, Magnus purchased a total of 178 TN of sand and 22 bags (22 TN) were remaining on-site at the conclusion of the project.

Samples of the slurry from the batch plant and from the trench were collected twice daily. The following slurry properties from the batch plant and in-trench slurry were measured and recorded twice daily: viscosity, density, and pH. Biopolymer slurry mixing was performed in accordance with the manufacturer's mix design.

Table 2 – Biopolymer Materials Used

Material	Unit	Quantity
G150 Guar Gum	KG	2100
Busan 1202	LB	66.3
Soda Ash	LB	350
LEB-H	GAL	8

ZVI/sand backfill samples were tested per batch basis for the first six batches mixed per day and every six thereafter. ZVI/sand backfill as-mixed in the ready-mix truck was tested for percent iron by weight using the magnetic separation test procedure. Non-compliant samples required additional mixing time in the ready-mix truck, re-testing, and where noted, an additional bag of iron was added to the ready mix truck to ensure that the magnetic separation test showed a minimum of 61.85% iron by weight with a (-)2% deviation allowed. The magnetic separation test procedure and the ZVI/sand Batch Logs and all magnetic separation tests performed are enclosed in Attached J.

Table 3 – ZVI/sand as Mixed

Date	No. of Tests Performed	No. of Re-Tests
10/13/15	3	1
10/14/15	6	5
10/15/15	7	1
10/16/15	6	2
10/17/15	6	1

ZVI/sand backfill samples were collected as-placed from the trench at 20-LF of PRB media placed. ZVI/sand backfill as-placed in the trench were tested for percent iron by weight using the magnetic separation test procedure. A total of 7 in-trench samples were collected from ZVI/sand backfill placement and all tests show that the minimum iron percentage of 61.85% by weight with a (-)0% deviation was contained in the in-trench sample.

Once set of cylinders were also cast from the CDF placed in the trench by Rockridge Geotechnical and tested for unconfined compressive strength at 16-days and 28-days. The test data is enclosed in Attachment K.

4.0 VARIATIONS/DEVIATIONS FROM THE PLANS AND SPECIFICATIONS

Variations from the Specification are noted in this section and have been approved with the Engineer, Construction Manager and Owner.

Table 4 - Variances

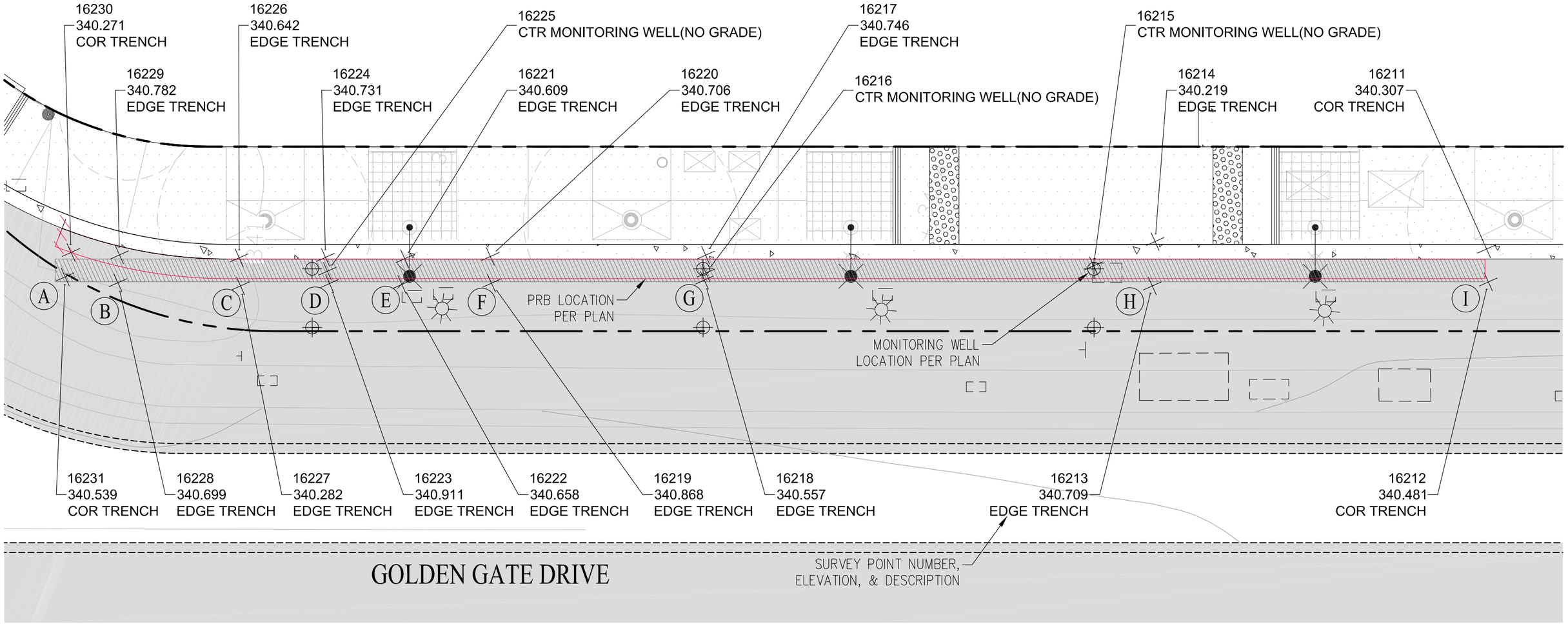
No	Description	Specification	Variance
1	Trench Width	DWG C-4, Detail 1 indicates 2-foot wide PRB	Magnus specialty long stick configuration and pin connection to the bucket requires a minimum bucket width of 28-inches. Additional sand was used in the batch calculations to maintain a ZVI equivalent thickness of 1.1 feet. The iron percentage volume changed from 55% iron to 47.14% iron.
2	Alignment	DWG C-3, Plan View	The radius from Sta. 11+46 to Sta. 11+29 was straightened in the field to include two straight segments with a point of intersection at Sta. 11+29 due to physical limitation with the excavator.
3	Depth	DWG C-3, Note 7 and Section 3.4.B of Spec 025010 indicate tolerance for bottom elev. is -0.1/+0.5 FT.	Excavation exceeded design elevation tolerances at Sta. 11+40, 11+30, 11+00 thru 10+70, 10+40, 10+20 thru 10+00. Inspections of the excavation spoils indicated clay material consistent throughout each station that exceeded design tolerances.
4	Top width	DWG C-3, Note 7 and Section 3.4.B of Spec 025010 indicate tolerance for PRB width is -0.0/+0.5 FT.	The as-built survey of the top of CDF reflects the expression of the PRB trench backfill at the surface. The width of the trench is generally vertical, on alignment, and approximately 28-inches wide.
5	CDF Cap Placement	DWG C-4, Detail 1 shows CDF depth varies to match existing grade	CDF was poured to elevation 340.0 FT NGVD29 rather than existing grade (approximately 340.7 FT) to meet planned working grade for ZCON.
6	Recirculation Pipe Abandonment	Section 3.4.F.3 of Spec 05010 indicates to abandon the pipe above the ZVI with grout	Magnus used 1,500-psi sand cement slurry manufactured by Central Concrete Supply Co to abandon the pipe riser from the top of the ZVI at elevation 331.0 FT NGVD29 to the top of the cap at elevation 340.0 FT NGVD29.
7	CDF Test Frequency	Section 1.7.1 of Spec 312310 requires test frequency twice for the initial 50 cubic yards	Rockridge Geotechnical only collected one set of samples (3) 6x12 inch molds for testing at 7, 28, and 56 days. An additional set of cylinders was not collected for the 99 cubic yards of CDF placed. Also, testing at 7-day was missed and the first cylinder was tested at 16-days.

5.0 CONCLUSION

Magnus Pacific installed the Permeable Reactive Barrier at the 7544 Dublin Apartments Project in accordance with the Plans and Specifications and approved variances as noted in this completion report. Construction photographs are enclosed in Attachment L (submitted as a separate file) and in accordance with Article 1.9, Section 025010 of the Specifications, Magnus has also enclosed a performance warranty in Attachment M of this Completion Report.

ATTACHMENT A

PRB Survey Plan and Profile As-Built



AS BUILT PRB TRENCH WIDTH	
LOCATION	WIDTH (FT)
A	2.54
B	2.85
C	2.88
D	2.67
E	2.63
F	2.73
G	2.55
H	4.55
I	3.37

LEGEND

PRB LOCATION PER AMEC IMPROVEMENTS PLANS

APPROXIMATE SUBSURFACE PRB LOCATION AS CONSTRUCTED, SEE NOTE 2

NOTES:

1. PRB AS-BUILT LOCATION, WIDTH, & ELEVATIONS ARE BEING SHOWN IN COMPARIOSON TO THE ULTIMATE BUILD OUT CONDITION FOR GOLDEN GATE DRIVE.

2. THE SURVEY REFLECTS THE EXPRESSION OF THE PRB TRENCH BACKFILL AT THE SURFACE, THE SHADED PRB LOCATION INDICATES THE ESTIMATED PRB LOCATION AT DEPTH.

PRB AS BUILT

7544 DUBLIN BLVD

CITY OF DUBLIN ALAMEDA COUNTY CALIFORNIA

DATE: NOVEMBER, 2015
SCALE: 1"=10'

cbg
Carlson, Barbee & Gibson, Inc.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
2633 CAMINO RAMON, SUITE 350
SAN RAMON, CALIFORNIA 94583
(925) 866-0322
www.cbandg.com

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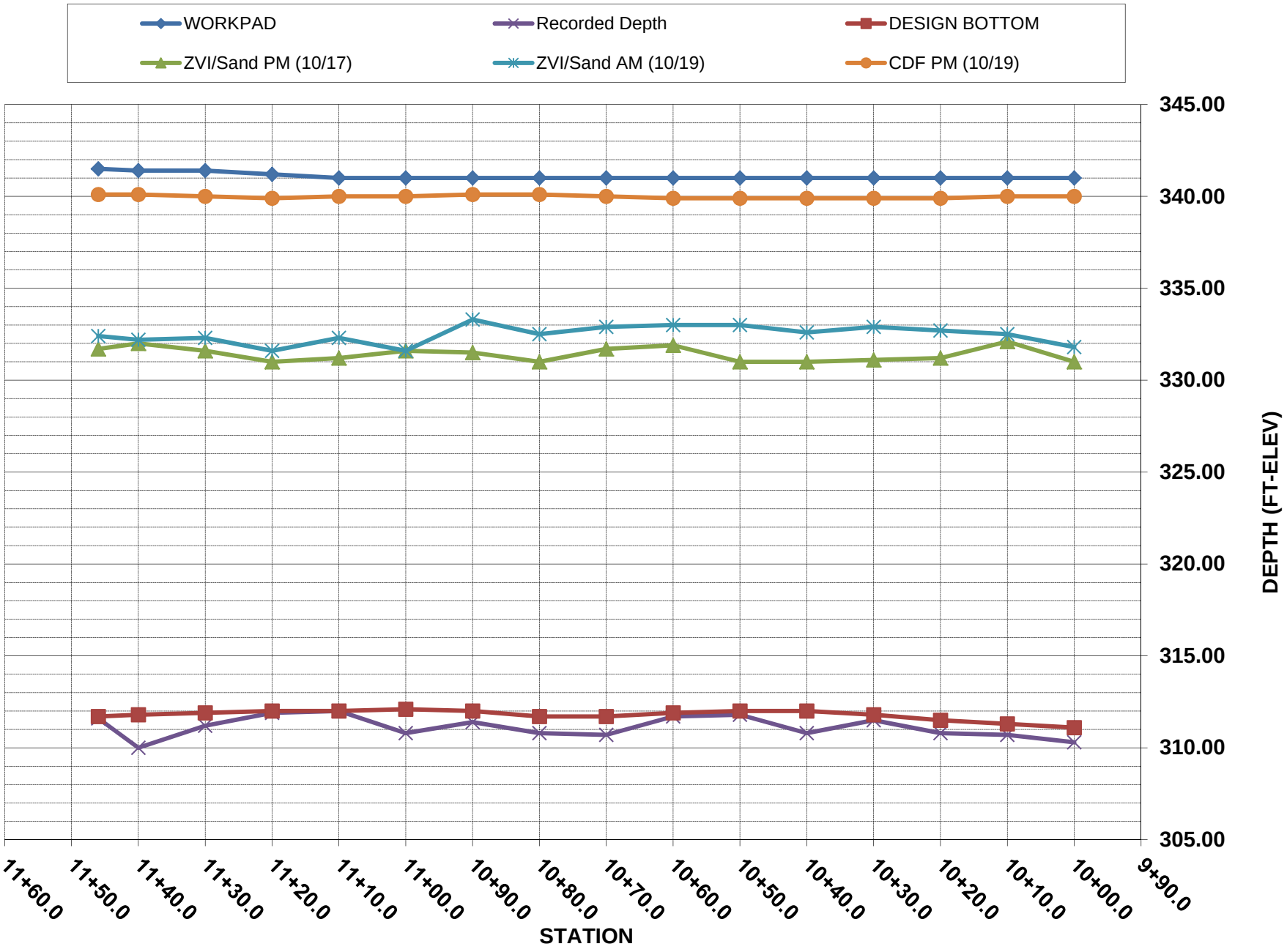
DUBLIN APARTMENTS
PERMEABLE REACTIVE BARRIER
7544 DUBLIN BLVD, DUBLIN, CA
10/19/15



ATTACHMENT B

Material Gradations and Hydraulic Conductivity Testing

SUBMITTAL OF PLANS, SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL, SAMPLES, OR MANUFACTURER'S CERTIFICATES

DATE: Sept 25, 2015

SUBMITTAL NO. 003.1

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS

TO: Mr. Sean R McKinley ZCon Builders 780 W Grand Avenue Oakland CA 94612 w: 510-444-4190 c: 510-507-3591 e: smckinley@zconbuilders.com	From: Mr. Tino B. Maestas, P.E. Magnus Pacific, LLC 6558 Lonetree Blvd Rocklin, CA 95765 Direct: 916-462-6419 Cell: 916-471-8210 email: tmaestas@magnuspacific.com	**PROJECT NO.** 150019	CHECK ONE: ☐ THIS IS A NEW SUBMITTAL ☒ THIS IS A RESUBMITTAL
SPECIFICATION SEC. NO. 025010 - Permeable Reactive Barrier	PROJECT TITLE AND LOCATION 7544 Dublin Apartments, Dublin, California		

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See Instruction on B)	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CLIENT USE
				SPEC. PARA.NO.	DRAWING SHEET NO.			
1	FINAL ZVI & Sand Pre-Construction Test Data		1	2.5(D)-(G)	N/A	A		

REMARKS

I have reviewed and approved the attached submittal(s) to ensure contract compliance. All quantities, dimensions, specific performance requirements, materials, catalog numbers and similar data have been verified as complete.

9/25/2015

Tino B. Maestas, P.E.

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	Date

Geo-**L**ogic **A**ssociates
143E Spring Hill Drive
Grass Valley, CA 95945
USA
T+1 530 272 2448
F+1 530 272 8533
www.geo-logic.com

DATE: September 24, 2015

TO: Tino Maestas
Magnus Pacific Corporation
6558 Lonetree Blvd.
Rocklin, CA 95765

e-mail: tmaestas@magnuspacific.com

JOB NO: 2015.A111.100
LAB LOG: 3953.0

RE: **Lab Report: PRB Wall, Dublin CA**

Enclosed are results for: Samples Received - September 4, 2015

Code	Item	Quantity
3050	Particle Size Analysis, Fine ASTM C-136	3
2150	Hydraulic Conductivity-Fixed-wall, 2-8" ASTM D-2434	4
1850	Dry Density / Moisture Content ASTM D-7263	4
4500	Void Ratio, Saturation & Porosity Determination	4

Thank you for consulting Geo-Logic Associates for your material testing requirements. We look forward to working with you again. If you have any questions or require any additional information, please call us at 1-530-272-2448. This testing is based upon accepted industry practice as well as the for the test method listed. These results apply only to the samples supplied and tested for the above referenced job. This report shall not be reproduced except in full without written approval of Geo-Logic Associates.

Sincerely,

Prepared By: Kindra Hillman
Laboratory Manager

Reviewed By: Kenneth R. Criley
Technical Director

MIX SUMMARY

Geo-Logic ASSOCIATES

Client : Magnus Pacific Corporation

Project No: 2015.A111.100

Lab Log: **3953**

Project Name: PRB Wall, Dublin Ca

Report Date: September 23, 2015

DESCRIPTION	DENSITY pcf	VOLUME %	BLEND pcf	SPECIFIC GRAVITY	BATCH VALUES VOLUME FT^3	MASS %	MASS lb/yd^3
Zero Valent Iron	160	55	88	7.8	0.181	69	2376
# 20 Sand	88	45	39.6	2.7	0.235	31	1069
Voids					0.584 = 58.4% Porosity		
Totals		100	127.6		1.0	100	3445

Notes: ** Classifications are based on ASTM D-2487 when appropriate test results are available and per ASTM D-2488 when visual

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

Geo-Logic ASSOCIATES

WATER CONTENT & DRY DENSITY

Client : Magnus Pacific Corporation

Project No: 2015.A111.100

Lab Log: **3953**

Project Name: PRB Wall Dublin, CA

Report Date: September 18, 2015

LSN	Sample ID	Soil Classification *	Water Content %	Dry Density pcf	Void Ratio		Porosity % **
A	Brown Sand	Lightly Compacted	0.6	107.4	0.57		36.3
A	Brown Sand	Loose		95.7	0.76		43.2
B	Silica Resource #20 Sand	Lightly Compacted	0.2	92.9	0.81		44.9
B	Silica Resource #20 Sand	Loose		83.2	1.03		50.7
C	Zero Valent Iron	Lightly Compacted	0.1	173.7	1.80		64.3
C	Zero Valent Iron	Loose		148.7	2.3		69.5
D	Blend	Lightly Compacted	0.1	124.0	2.1		68.1
D	Blend	Loose		128.3	2.0		67.0

Notes: * Classifications are based on ASTM D-2487 when appropriate test results are available and per ASTM D-2488 when visual
** Porosity based on specific gravities for Iron of 7.8 and sand of 2.7

PARTICLE SIZE ANALYSIS

Test Report

CalTrans 202

Geo-Logic ASSOCIATES

Client : MAGNUS PACIFIC CORPORATION

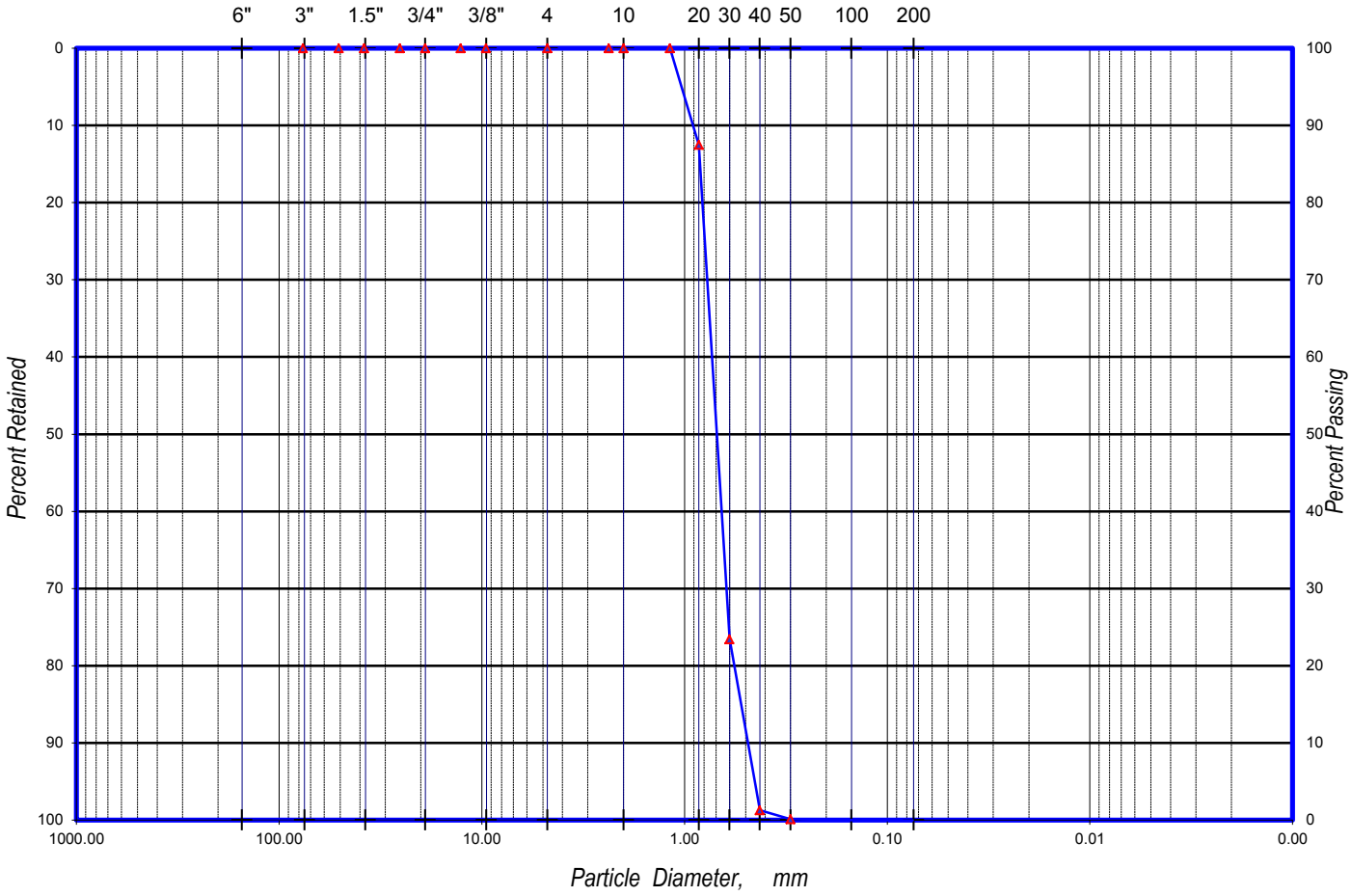
Project No: 2015.A111.100

Lab Sample No: ***3953B***

Project Name: PRR WALL, DUBLIN CA

Report Date: September 11, 2015

BOULDERS	COBBLES	GRAVEL		SAND			SILT AND CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE	
US SIEVE SIZE, INCHES				US STANDARD SIEVE SIZE No.			HYDROMETER



Symbol	Sample ID	Description	% Gravel	% Sand	% Silt - Clay
▲	Silica Resource Sand (9/4/15)	Brown Poorly Graded Sand (SP)	0.0	100.0	0.0

Size Passing, mm D_{60} = 0.74 D_{30} = 0.63 D_{10} = 0.49

Coefficient of Curvature, C_c: 1.07 Coefficient of Uniformity, C_u: 1.50 Fineness Modulus = 2.77

Note: * Percentages are +/- 0.1% based on computer rounding as allowed by ASTM D-6026-01 Section 5.2.3.

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

PARTICLE SIZE ANALYSIS

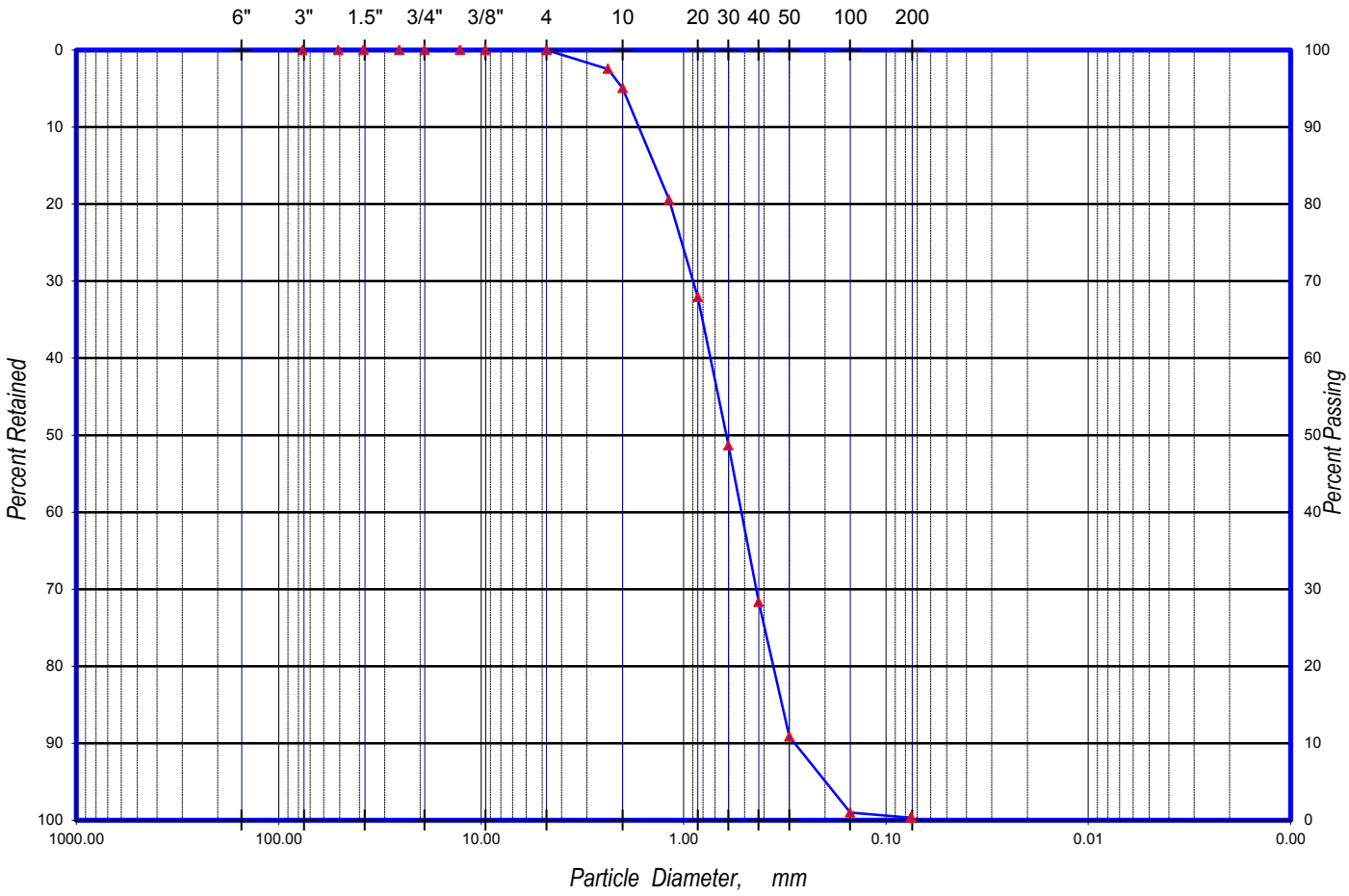
Test Report

CalTrans 202

Geo-Logic ASSOCIATES

Client :	Project No:	Lab Sample No:
MAGNUS PACIFIC CORPORATION	2015.A111.100	**3953C**

Project Name:	Report Date:
PRB WALL, DUBLIN CA	September 16, 2015



Symbol	Sample ID	Description	% Gravel	% Sand	% Silt - Clay
▲	# ETI CC-1004	Zero Valent Iron (ZVI)	0.0	99.7	0.3

Size Passing, mm D_{60} = 0.75 D_{30} = 0.44 D_{10} = 0.29

Coefficient of Curvature, C_c: 0.90 Coefficient of Uniformity, C_u: 2.61 Fineness Modulus = 2.61

Note: * Percentages are +/- 0.1% based on computer rounding as allowed by ASTM D-6026-01 Section 5.2.3.

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

Geo-Logic ASSOCIATES

PARTICLE SIZE ANALYSIS

TEST REPORT

CalTrans 202

Client : Magnus Pacific Corporation

Project No: 2015.A111.100

Lab Sample No: 3953C

Project Name: PRB Wall, Dublin CA

Report Date: 9/16/2015

Sample Identification: ***# ETI CC-1004***

Sieve Size	Cumulative Percent Passing	Project Specification
4"		
3"		
2"		
1-1/2"		
1"		
3/4"		
1/2"		
3/8"		
#4	100.0	100
#8	97.5	95 - 100
#10	95.1	
#16	80.6	75 - 90
#20	67.9	
#30	48.6	25 - 45
#40	28.3	
#50	10.9	0 - 10
#100	1.0	0 - 5

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

Geo-Logic ASSOCIATES

HYDRAULIC CONDUCTIVITY

FIXED WALL

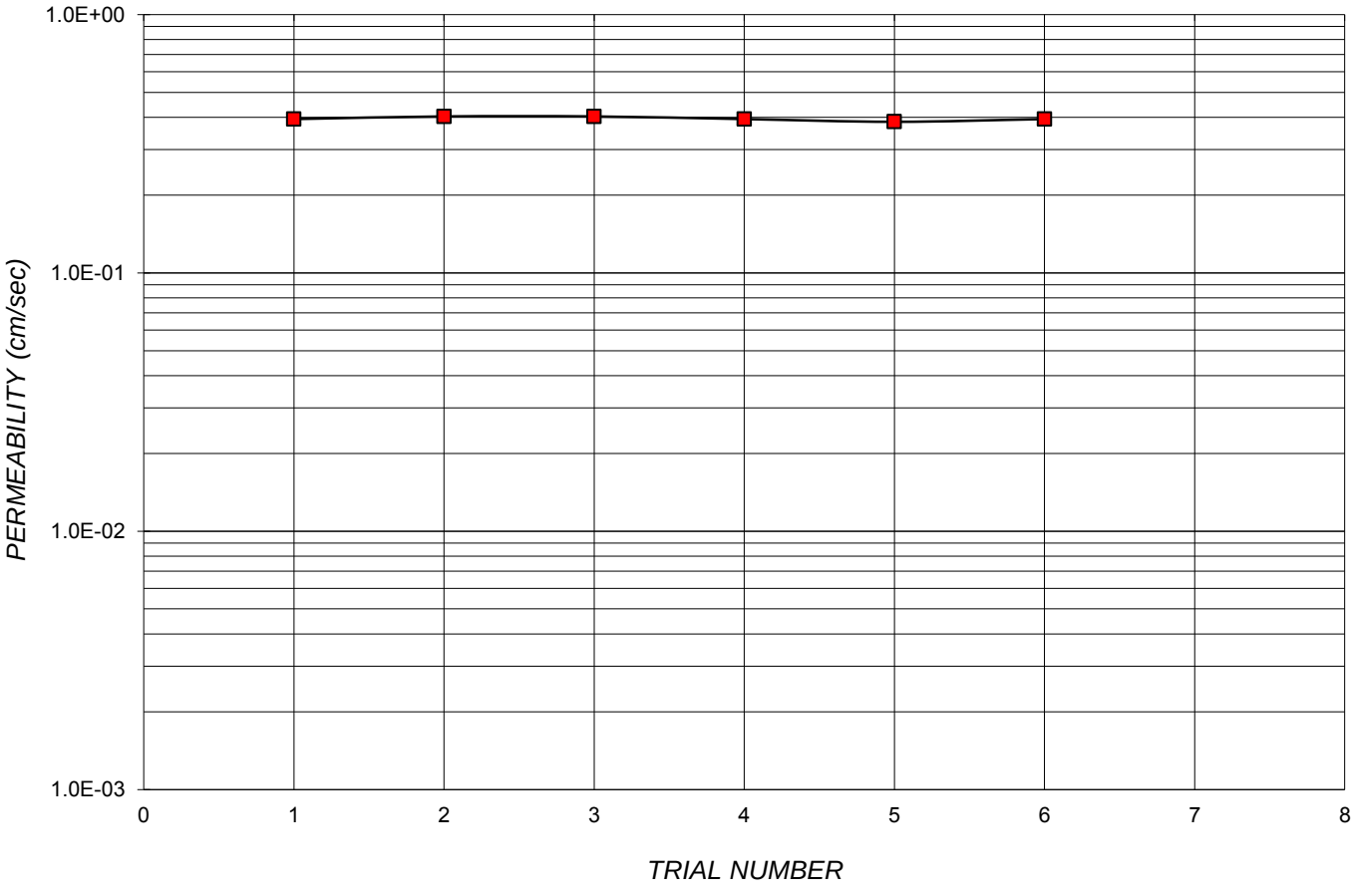
ASTM D-2434, Modified

Client Name / Project Name:	Project No.:	Lab Log:
Magnus Pacific Corporation / PRB Wall, Dublin CA	2015.A111.100	3953B

Sample I.D.:	Description:	Report Date:
Silica Resource Sand	Light Brown Sand	September 17, 2015

TRIAL NUMBER	WATER CONTENT %	DRY DENSITY pcf	DRY DENSITY kg/m^3	HYDRAULIC CONDUCTIVITY cm / sec
Initial	0.5	91.2	1460	
1				3.9E-01
2				4.0E-01
3				4.0E-01
4				3.9E-01
5				3.8E-01
6				3.9E-01
Final	27.8		AVERAGE:	**3.9E-01**

3.9E^{-1} cm/ s = 1120 ft /day



NOTES: 1) Test ran using 6 inch diameter fixed wall permeater. Sample Length = 11.4 cm

2) CONSTANT HEAD Average Head = 4cm

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

Geo-Logic ASSOCIATES

HYDRAULIC CONDUCTIVITY

FIXED WALL

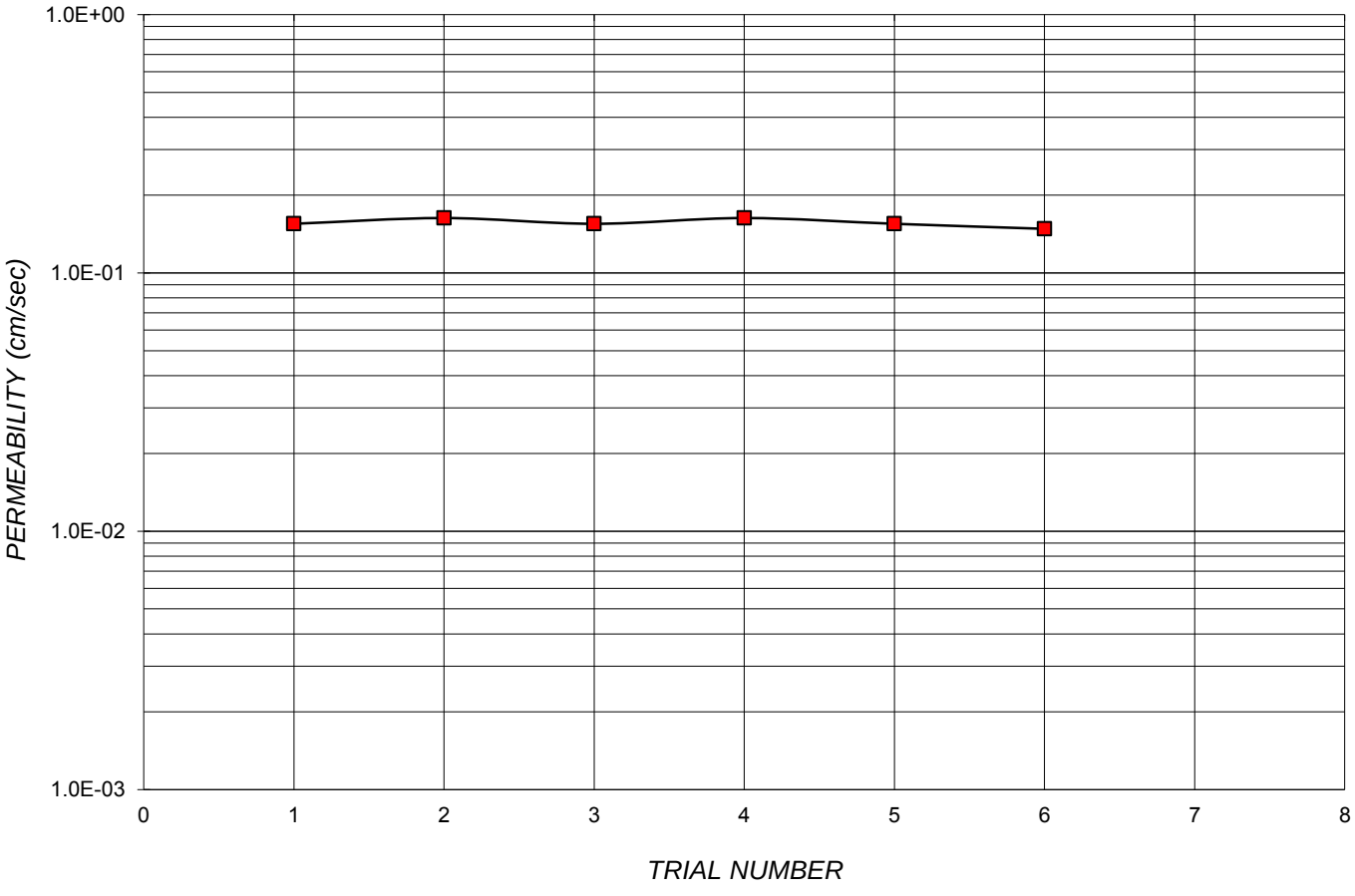
ASTM D-2434, Modified

Client Name / Project Name:	Project No.:	Lab Log:
Magnus Pacific / PRB Wall Dublin, CA	2015.A111.100	3953C

Sample I.D.:	Description:	Report Date:
ETI CC-1004	ZVI IRON	September 18, 2015

TRIAL NUMBER	WATER CONTENT %	DRY DENSITY pcf	DRY DENSITY kg/m^3	HYDRAULIC CONDUCTIVITY cm / sec
Initial	0.1	152.0	2434	
1				1.5E-01
2				1.6E-01
3				1.5E-01
4				1.6E-01
5				1.5E-01
6				1.5E-01
Final	16.4		AVERAGE:	**1.6E-01**

1.6E^{-1} cm/ s = 440 ft /day



NOTES: 1) Test ran using 6 inch diameter fixed wall permeater. Sample Length = 11.2 cm

2) CONSTANT HEAD Average Head = 4.5cm

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

Geo-Logic ASSOCIATES

HYDRAULIC CONDUCTIVITY

FIXED WALL

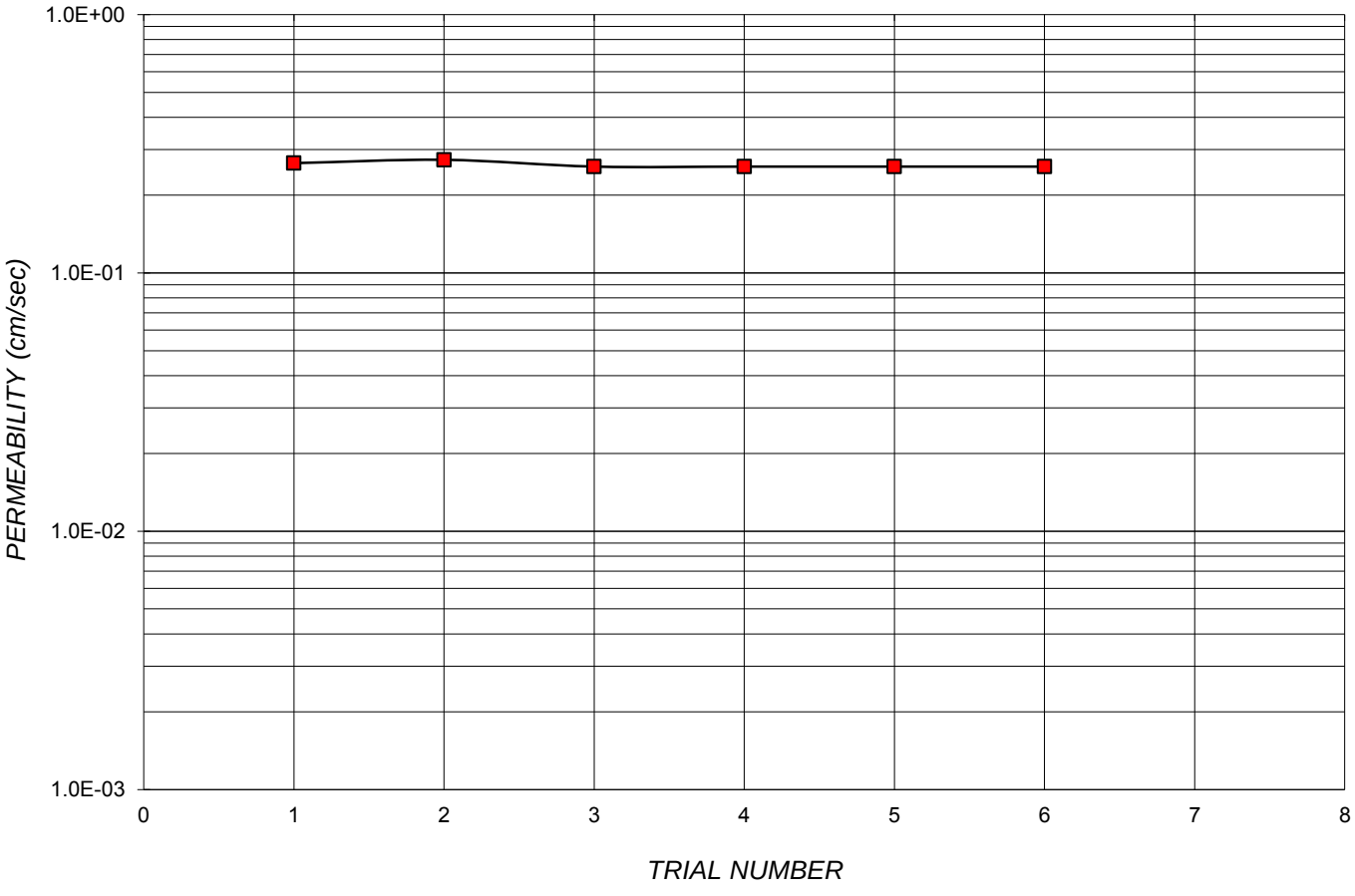
ASTM D-2434, Modified

Client Name / Project Name:	Project No.:	Lab Log:
Magnus Pacific / PRB Wall Dublin, CA	2015.A111.100	3953D

Sample I.D.:	Description:	Report Date:
Blend 45% #20 Sand w/ 55% ZVI	Sand and Iron	September 22, 2015

TRIAL NUMBER	WATER CONTENT %	DRY DENSITY pcf	DRY DENSITY kg/m^3	HYDRAULIC CONDUCTIVITY cm / sec
Initial	0.0	128.3	2054	
1				2.7E-01
2				2.7E-01
3				2.6E-01
4				2.6E-01
5				2.6E-01
6				2.6E-01
Final	21.4		AVERAGE:	**2.6E-01**

2.6E^{-1} cm/ s = 730 ft /day



NOTES: 1) Test ran using 6 inch diameter fixed wall permeater. Sample Length = 11 cm

2) CONSTANT HEAD Average Head = 4.5cm

This testing is based upon accepted industry practice as well as the test method listed. These results apply only to the samples supplied and tested for the above referenced job.

148.1481 density of Iron no compaction

	pcf	% Vol	pcf each
Iron	160	0.55	88
Sand	88	0.45	39.6
		1.00	127.6

	pcf	Gs	Vol, ft3	% Mass	Batch
Air, (Porosity)			0.584	(58.4 %)	grams
Iron	88	486.954	0.181	69.0	3448
Sand	39.6	168.561	0.235	31.0	1552
	127.6		1.000	100.0	5000

0.584

4967

Average = 161.15

Average = 88.05

Weighted average, Gs = 5.505

Batch Proportioning

	Batch Vol CY	Batch Vol CF	47%/53% CF	Weight LBS	Bags EA				
iron	5.89	159.03	74.96674	11994.68	4.00	at 3000-lb bulk bags	by mass 61.85%	1.1	equivalent thickness
sand	5.89	159.03	84.06326	7397.567	3.70	at 2000-lb bulk bags	38.15%	2.333333	bucket width in feet
			159.03	19392.25				47.14%	iron by volume
	Trench Dimensions			121.9408		+/- 2% for batch testing			
L	146 ft					1.24% 60.62% allowable variation for as-mix test			
D	19 ft								
T	2.333333 ft								
Trench Vol	6472.667 CF								
# Batches	40.70 batches at 5.89-CY/batch								

# iron bags	163	ordered a total of 172.5 TN from Connelly and 111 TN from AMEC	283.5 TN	189 bags
# sand bags	151	ordered a total of 178 TN from Silica Resources Inc =	178 TN	178 bags

ATTACHMENT C

Connelly-GPM, Inc. Iron Aggregate Certificate of Analysis

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 1 OF 7, 87705
DATE SHIPPED: 10/1/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes

MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes

MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: Yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 2 OF 7, 87706
DATE SHIPPED: 10/1/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes

MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes

MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: Yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

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PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 3 OF 7, 87726
DATE SHIPPED: 10/1/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes

MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): yes

MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 4 OF 7, 87736
DATE SHIPPED: 10/2/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes
MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes
MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: Yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 5 OF 7, 87735
DATE SHIPPED: 10/2/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes
MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes
MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: Yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 6 OF 7, 87781
DATE SHIPPED: 10/6/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes

MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes

MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: Yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12866
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 10-3000 LB. BAGS
LOAD I.D.: 7 OF 7, 87777
DATE SHIPPED: 10/7/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes
MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes
MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12866 1 thru 7

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

CERTIFICATE OF ANALYSIS

CUSTOMER: MAGNUS PACIFIC
SHIPPING ORDER #: 12877
PRODUCT: IRON AGGREGATE ETI CC-1004
QUANTITY: 15-3000 LB. BAGS
LOAD I.D.: 1 OF 1, 87815
DATE SHIPPED: 10/7/2015

THIS IS TO CERTIFY THAT THE ABOVE TRUCKLOAD OF IRON AGGREGATE ETI CC-1004 HAS BEEN TESTED AND FOUND TO CONFORM TO THE PRODUCT SPECIFICATIONS LISTED BELOW.

U.S. STANDARD SIEVE SIZE	SPECIFICATION % PASSING BY WEIGHT	SAMPLE PASSED
NUMBER 4	100%	✓
NUMBER 8	95-100	✓
NUMBER 16	75-90	✓
NUMBER 30	25-45	✓
NUMBER 50	0-10	✓
NUMBER 100	0-5	✓

BULK DENSITY (SPECIFICATION: 140-160#/CU FT): Yes

MATERIAL FREE OF OIL/GREASE (TAKES WATER READILY): Yes

MINERALOGY OF FILINGS AT LEAST 85% BY WEIGHT METALLIC IRON: yes

Galen B. Dixon, Technical Director

D:\WORD\WT\MthruP\Magnus CofA 12877

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

August 5, 2014 Via UPS Ground

Mr. Brent O'Dell
AMEC
200 American Metro Blvd.
Suite 113
Hamilton, NJ 08619

Re: Sample Iron Aggregate ETI CC-1004 and Quality Control Report

Dear Brent,

Enclosed is 20 lbs. of our Iron Aggregate ETI CC-1004 extracted from the production run of your 1,375.5NT for Haledon, NJ. I've also included a Screen Specification for this material, an MSDS for Iron Aggregate, and some pens for your use (great little pocket pens!). The Quality Control Report is being sent under separate cover, via e-mail.

The Quality Control Report certifies that the Iron Aggregate ETI CC-1004 produced for your Haledon, NJ site is within the specification for particle size distribution, bulk density, oil and grease content, and percentage of iron (note: we did not have another analysis run for current carbon content, but past analyses have put it around 3%).

If there's anything further you need, please let me know.

Kindest regards,

CONNELLY-GPM, INC.
THE IRON AGGREGATE PEOPLE™

Amy Marchefka
Sales Manager

Enclosures

c: Mr. Pat Pontoriero

D:\WORD\WT\AthruD\AMEC\20-lb 1004 Sample

CONNELLY – GPM, INC.

ESTABLISHED 1875
3154 SOUTH CALIFORNIA AVENUE CHICAGO, ILLINOIS 60608-5176
PHONE: (773) 247-7231 • www.ConnellyGPM.com • FAX: (773) 247-7239

August 8, 2014

Current Production Sample Analysis
ETI CC-1004

Sieve Analysis Results

U.S. SCREEN NUMBER	(Opening Size)	SPECIFICATION	SAMPLE TEST RESULTS
4	(4.75 mm)	100% PASSING	100%
8	(2.36 mm)	95 - 100% PASSING	97.5
16	(1.18 mm)	75 - 90	75.9
30	(0.600 mm)	25 - 45	37.9
50	(0.300 mm)	0 - 10	7.3
100	(0.150 mm)	0 - 5	0.6

MATERIAL WEIGHS APPROXIMATELY 159 POUNDS PER CUBIC FOOT

Metallic Iron as determined by spectral analysis	87-93%
Metallic Iron as determined by dissolution in HCl	89.0%
Oil and Grease content as determined by Hexane Extraction	10 mg/kg*

*(10 ppmw is the smallest unit of detection. Actual results appeared to be between 0 and 10.)

GALEN B. DIXON
Technical Director

D:\WORD\WT\A thru D\AMEC\Analysis of 20 lb Sample

8/7/2014

ATTACHMENT D

Mirafi 180 NC Geotextile Product Data Sheet

HDSUPPLY
CONSTRUCTION & INDUSTRIAL
WHITE CAP

ON ACCOUNT

PACKING SLIP

18464996

018 - Dublin
6341 Scarlett Court
Dublin, CA, 94568
(925) 833-9200

Sold To: 126996000
MAGNUS PACIFIC CORP
6558 LONETREE BLVD
ROCKLIN, CA, 95765
916-233-1137

Ship To: DUBLIN APARTMENTS, 10000890314
7544 DUBLIN BLVD
DUBLIN, CA, 94568
Job Site Contact: TINO MAESTAS
Job Site Phone: 916-471-8210
Map #:

Delivery : 3937385

Printed By : SAMUEL TENNELL
Printed Date : 10/15/2015 12:23 PM PACIFIC **Ordered By : TINO MAESTAS** **Contact Ph# : 916-471-8210**

Order Number	Order Date	Request Date	Customer PO	Terms	Ship via/Routing	Sales Person	Created By
18464996	10/14/2015	10/15/2015	TINO / MARC	N30D	2. Our Truck	Brooks, D	Reed, D

LN	Part#	Description	Quantity			U/M	Price	Amount
Bin	H/M	LOT / S/N	ORD	SHP	BKO	Unit WT	COO	Applied
1 1-YARD1	157R180NC15 **VPN:** 180NC/15/300	ROLL 180NC 15'X300' 4500SF MIRAFI	1	1	0	RL 250 LBS		

**********PACKING SLIP ONLY**********
********** THIS IS NOT AN INVOICE**********
REPORT DISCREPANCIES WITHIN 24 HRS.
IF YOU DIDN'T RECEIVE THE SERVICE YOU EXPECTED CALL JAMES JACKSON (916) 997-9524
NO REFUNDS OR EXCHANGES ON NON STOCK MERCHANDISE
SEE REVERSE SIDE FOR TERMS AND CONDITIONS
WWW.WHITECAP.COM

PRINT:_____ SIGN : _____

SHIPPED WEIGHT: **250.00 LBS** PULLED BY: _____ CHECKED BY: _____ LOADED BY: _____

WARNING: These products contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TENCATE GEOSYNTHETICS
Americas

Mirafi® 180NC

Mirafi® 180NC is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 180NC is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 180NC meets AASHTO M288-06 Class 1 for Elongation > 50%.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Weight	ASTM D5261	oz/yd^2 (g/m^2)	7.5 (254)	
Grab Tensile Strength	ASTM D4632	lbs (N)	205 (912)	205 (912)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	80 (356)	80 (356)
CBR Puncture Strength	ASTM D6241	lbs (N)	550 (2447)	
Apparent Opening Size (AOS)[1]	ASTM D4751	U.S. Sieve (mm)	80 (0.18)	
Permittivity	ASTM D4491	sec^{-1}	1.0	
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	70 (2852)	
UV Resistance (at 500 hours)[2]	ASTM D4355	% strength retained	70	

[1] ASTM D4751: AOS is a Maximum Opening Diameter Value
[2] Modified

Physical Properties	Unit	Typical Value[3]	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 300 (4.57 x 91.4)
Roll Area	yd^2 (m^2)	500 (418)	
Estimated Roll Weight	lb (kg)	262 (119)	

[3] ASTM D4439 Standard Terminology for Geosynthetics: typical value, *n—for geosynthetics,* the mean value calculated from documented manufacturing quality control test results for a defined population obtained from one test method associated with on specific property.

Made in USA

365 South Holland Drive
Pendergrass, GA 30567

Tel 706 693 2226
Tel 888 795 0808

Fax 706 693 4400
www.tencate.com

FGS000760
ETQR3

TENCATE materials that make a difference

GAI-LAP-25-97

Testing Lab 1291.01 & 1291.02

ATTACHMENT E

CDF Mix Design and Delivery Batch Tickets

SUBMITTAL OF PLANS, SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL, SAMPLES, OR MANUFACTURER'S CERTIFICATES

DATE: October 10, 2015

SUBMITTAL NO. 312310-0001-01

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS

TO: Mr. Sean R McKinley ZCon Builders 780 W Grand Avenue Oakland CA 94612 w: 510-444-4190 c: 510-507-3591 e: smckinley@zconbuilders.com	From: Mr. Tino B. Maestas, P.E. Magnus Pacific, LLC 6558 Lonetree Blvd Rocklin, CA 95765 Direct: 916-462-6419 Cell: 916-471-8210 email: tmaestas@magnuspacific.com	**PROJECT NO.** 150019	CHECK ONE: ☒ THIS IS A NEW SUBMITTAL ☐ THIS IS A RESUBMITTAL
SPECIFICATION SEC. NO. 31 23 10 Excavation for Remediation	PROJECT TITLE AND LOCATION 7544 Dublin Apartments, Dublin, California		

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See Instruction on B)	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION	FOR CLIENT USE
				SPEC. PARA.NO.	DRAWING SHEET NO.			
1	Revised CDF Mix Design		1	1.5.B	N/A	A		
2	CDF Material Certifications		1	1.5.C	N/A	A		

REMARKS

I have reviewed and approved the attached submittal(s) to ensure contract compliance. All quantities, dimensions, specific performance requirements, materials, catalog numbers and similar data have been verified as complete.

10/12/2015

Tino B. Maestas, P.E.

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	Date

READYMIX TRANSIT
Phone (925) 449-7785

ROCK and SAND DELIVERY
FAX (925) 449-1691

CUSTOMER :	**DATE : 11.12.15**
MAGNUS PACIFIC	**MIX # RC CDF1F**
	CONCRETE DESCRIPTION
JOB DESCRIPTION :	**1 SACK CDF**
	100 psi 28 DAY STRENGTH (f ' c)
DUBLIN APARTMENTS	1 SACK CEMENTIOUS MATERIAL
DUBLIN, CA.	# 4 MAX AGGREGATE
	6 " SLUMP +- 1"
	3.63 W/C RATIO

DESCRIPTION OF MATERIALS

TEICHERT MATERIALS	CLASS II CONCRETE SAND ASTM C-33
CA. PORTLAND	TYPE II / V L/A PORTLAND CEMENT ASTM C-150
HEADWATERS RESOURCES	CLASS F FLYASH ASTM C-618
MASTER BUILDERS	322N WATER REDUCER ASTM C-494 TYPE A

MATERIAL		SOLID VOLUME		Sp.GR X 62.4 lb/cu.ft.		SSD QUANTITY	
CLASS II TOP SAND		20.29	cf	165.4		3356	lbs.
PORTLAND TYPE II		0.22	cf	196.6		44	lbs.
TYPE F FLYASH		0.35	cf	142.86		50	lbs.
WATER gal	**41**	5.47	cf	62.45	8.33	342	lbs.
AIR %	**2.50**	0.67	cf	3.66			
MBT 322N		0	cf	0		6	ozs.
TOTALS		**27.00**	**cf**			**3792**	**lbs.**

SPECIAL INSTRUCTIONS :

1 > SLUMP SHALL BE FLOWABLE

1227 GREENVILLE ROAD
LIVERMORE, CA 94550

TEICHERT MATERIALS

Material Evaluation

Plant: **Vernalis**

SMARA # 91-39-0021

Product: **Concrete Sand**

Grading & SE represent averages from testing dates of 7-1-14 to 9-30-14

Sieve Size		Percent Passing	
75mm	3"		
63mm	2 1/2"		
50mm	2"		
37.5mm	1 1/2"		
25mm	1"		
19mm	3/4"		
12.5mm	1/2"		
9.5mm	3/8"	100	
4.75mm	#4	99	
2.36mm	#8	81	
1.18mm	#16	60	
600µm	#30	43	
300µm	#50	23	
150µm	#100	6	
75µm	#200	1.6	
FM		2.89	
Sand Equivalent ASTM D-2419			81
Coefficient of Uniformity			6.08
Durability Index ASTM D-3744			56
Shale & Chert % ASTM C-295			
			0.0
Maximum Dry Density ASTM D1557			
ASTM PCF			131.3
Optimum Moisture %			10.2
ASTM C 1293 one year expansion			

Specific Gravity ASTM C-128	
Bulk SSD	2.647
Absorption %	1.8
Soil pH ASTM D4972	8.8
Resistivity min ohm-cm	10,450
Chloride ppm	10.3
Sulfate ppm	13.6
Plasticity Index ASTM D 4318 - NP	
% Finer than #200 ASTM C117	
	2.5
% Clay Lumps ASTM C-142	0.2
Organic Impur. ASTM C-40	satisfactory
R Value	71
Unit Weight ASTM C-29	
Dry Loose (PCF)	106.2
Dry Rodded (PCF)	110.0
Soundness NaSO4 ASTM C-88	
Caltrans CT-214	3.0
ASTM C-88	3.3
0.026% (Innocuous)	

CALPORTLAND 9350 OAK CREEK ROAD, MOJAVE, CALIFORNIA 93501 / TEL (661) 832 3700, FAX (661) 824-4908

Manufacturer's Certification

We herby certify that this Type II/V Low Alkali cement, sourced from US, CA, Mojave, supplied to you has been manufactured in accordance with and meets the standard requirements of ASTM C150 specification for Type II and Type V cement. Additionally, this Type II/V cement meets the requirements of Caltrans Standard Specification Sec. 90-1.02(B). Below are the average chemical and physical data from September 1, 2014 to September 29, 2014

Report Date: **10/16/2014**

Chemical Analysis		ASTM C150 Requirements TYPE II Requirements	ASTM C150 Requirements TYPE V Requirements	MOJAVE TYPE II/V	Additional Data
					Limestone Analysis
Silicon dioxide (SiO2), min,%		---	---	**20.6**	**3.8**
Aluminum oxide (Al2O3), max,%		6	---	**3.5**	**1.1**
Ferric oxide (Fe2O3), max,%	(Note 2)	6	---	**3.6**	**0.6**
Calcium Oxide (CaO), %					**47.5**
Magnesium oxide (MgO), max,%		6	6	**3.1**	**1.5**
Sulfur trioxide (SO3), max,%;	(Note 1)	3	2.3	**2.8**	**0.1**
Loss on ignition, max,%		3.0	3.0	**2.6**	
Insoluble residue, max,%		0.75	0.75	**0.56**	Base Cement Phase
Alkalies(Na2O+0.658*K2O), max,%		0.6	0.6	**0.56**	Composition
Tricalcium silicate (C3S), %	(Note 5)	---	---	**57**	**59**
Dicalcium silicate (C2S), %		---	---	**15**	**16**
Tricalcium aluminate (C3A), max,%;	(Note 2)	8	5	**3**	**3**
Tetracalcium aluminoferrite (C4AF),%		---	---	**11**	**11**
C4AF + 2*(C3A), max,%;	(Note 2)	---	25	**17**	
CO2, %		---	---	**1.3**	
limestone, max,%		5	5	**3.1**	
CaCO3 in limestone, min, %		70	70	**92.8**	
Physical Data					
Air content of mortar,max,%		12	12	**7**	
Passing 45um (no. 325) sieve, %		---	---	**97.4**	
Blaine Fineness, min, m2/kg;		280/---	280/---	**408**	
Heat of Hydration, C186, (cal/g),	(Note 3)	---	---	**77**	
Autoclave expansion, max,%	(Note 4)	0.8	0.8	**0.01**	
Compressive Strength, min, MPa, (psi)					
3 days , Mpa		10	8	**25.5**	
PSI		1450	1160	**3700**	
7 days , Mpa		17	15	**31.5**	
PSI		2470	2180	**4570**	
28 days *(from previous month) Mpa		---	21	**39.0**	
PSI		---	3050	**5660**	
Vicat, initial set, min.-max., minutes		45-375	45-375	**159**	
C 1038, 14 day max, % expansion	(Note 1)	0.02	0.02	**0.006**	
C 452, 14 day max, % expansion	(Note 2)	---	0.04	**0.027**	
False Set, final penetration, min,%		50	50	**81**	

Apparatus and methods used in this laboratory have been checked by the Cement and Concrete Reference Laboratory of the National Institute of Standards and Technology. A copy of the report detailing their findings is available upon request. Major Oxides are analyzed by X-ray Fluorescence Spectrometry.

Note 1: ASTM C150, Table 1, Note D, It is permissible to exceed the values in the table for SO3 content, provided it has been demonstrated by Test Method C1038 that the cement with the increased SO3 will not develop expansion exceeding 0.020% at 14 days..

Note 2: ASTM C150, Table 1, Note B, Does not apply when the optional sulfate resistance limit in Table 4 is specified.

Note 3: ASTM C150, Table 1, Note H: For Informational Purposes Only

Note 4: Caltrans Specification Sec. 90-1.02B(2): Autoclave expansion shall not exceed 0.50 %.

Note 5: Caltrans Specification Sec. 90-1.02B(2): Type II cement C3S content shall not exceed 65%.

Charles T. Wright Jr.

Charles T. Wright Jr. - Quality Control Superintende

HEADWATERS RESOURCES

ASTM C618 Testing of
Jim Bridger Fly Ash

Sample Type:	**3200-ton**	**Report Date:**	**12/3/2014**
Sample Date:	**10/10 - 10/13/14**	**MTRF ID:**	**2329JB**
Sample ID:	**BR-116-14-R**		

Chemical Analysis			**ASTM Limits Class F**	**ASTM Limits Class C**	**ASTM Test Method**
Silicon Dioxide (SiO2)	61.61	%			
Aluminum Oxide (Al2O3)	18.36	%			
Iron Oxide (Fe2O3)	4.73	%			
Sum of Constituents	84.70	%	70.0% min	50.0% min	D4326
Sulfur Trioxide (SO3)	0.58	%	5.0% max	5.0% max	D4326
Calcium Oxide (CaO)	5.66	%			D4326
Moisture	0.04	%	3.0% max	3.0% max	C311
Loss on Ignition	0.28	%	6.0% max	6.0% max	C311
Physical Analysis					
Fineness, % retained on #325	19.82	%	34% max	34% max	C311, C430
Strength Activity Index - 7 or 28 day requirement					C311, C109
7 day, % of control	94	%	75% min	75% min	
28 day, % of control	93	%	75% min	75% min	
Water Requirement, % control	98	%	105% max	105% max	
Autoclave Soundness	0.03	%	0.8% max	0.8% max	C311, C151
Density	2.39				C604

Headwaters Resources certifies that pursuant to current ASTM C618 protocol for testing, the test data listed herein was generated by applicable ASTM methods and meets the requirements of ASTM C618.

Doug Rhodes, CET
Facility Manager

AAP SM
AASHTO R18

Materials Testing & Research Facility
2650 Old State Highway 113
Taylorsville, Georgia 30178
P: 770.684.0102
F: 770.684.5114

BASF
The Chemical Company

3

03 30 00	Cast-in-Place Concrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

MasterPozzolith® 322

Water-Reducing Admixture

Formerly Pozzolith 322 N*

Description

MasterPozzolith 322 ready-to-use, liquid admixture is used for making more uniform and predictable quality concrete. It meets ASTM C 494/C 494M requirements for Type A, water-reducing, Type B, retarding, and Type D, retarding and water-reducing, admixtures.

Applications

Recommended for use in:

- Prestressed concrete
- Precast concrete
- Reinforced concrete
- Shotcrete
- Lightweight concrete
- Pumped concrete
- 4x4™ Concrete
- Pervious concrete
- Self-consolidating concrete (SCC)

Features

- Reduced water content required for a given workability
- Normal setting characteristics

Benefits

- Improved workability
- Reduced segregation
- Superior finishing characteristics for flatwork and cast surfaces
- Increased compressive and flexural strengths

Performance Characteristics

Mix Data: 400 lb/yd^3 (237 kg/m^3) of Type I cement; slump 5 inches (125 mm); non-air-entrained concrete; concrete temperature 76 °F (24 °C); ambient temperature 74 °F (23 °C).

Setting Time

Mix Design	Initial Set (h:min)	Difference (h:min)
Plain Concrete	5:20	REF
MasterPozzolith 322 admixture @		
3 fl oz/cwt (195 mL/100 kg)	5:15	-0:05
5 fl oz/cwt (325 mL/100 kg)	5:40	+0:20
7 fl oz/cwt (460 mL/100 kg)	6:20	+1:00

Compressive Strength

	7 Days			28 Days		
Mix Design	psi	MPa	%	psi	MPa	%
Plain Concrete	2150	14.8	100	3070	21.2	100
MasterPozzolith 322 admixture @						
3 fl oz/cwt (195 mL/100 kg)	2820	19.4	131	3970	27.4	129
5 fl oz/cwt (325 mL/100 kg)	3160	21.8	147	4100	28.3	134
7 fl oz/cwt (460 mL/100 kg)	3190	22.0	148	4390	30.3	143

Note: The data shown are based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete-making materials and jobsite conditions.

MASTER® BUILDERS SOLUTIONS

Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, the temperature of the concrete and the climactic conditions. Trial mixes should be made with job site materials to determine the dosage required for specified setting time and a given strength requirement.

Guidelines for Use

Dosage: MasterPozzolith 322 admixture is recommended for use within a range of 3-7 fl oz/cwt (195-460 mL/100 kg) of cement for most concrete mixtures using average concrete ingredients. Because of variations in job conditions and concrete materials, dosages other than the recommended amounts may be required. In such cases, contact your local sales representative.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPozzolith 322 admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally-added calcium chloride or other chloride-based ingredients.

Compatibility: MasterPozzolith 322 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

Storage and Handling

Storage Temperature: MasterPozzolith 322 admixture should be stored above freezing temperatures. If MasterPozzolith 322 admixture freezes, thaw at temperatures above 35 °F (2 °C) and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPozzolith 322 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterPozzolith 322 admixture has been exceeded.

Packaging

MasterPozzolith 322 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPozzolith 322 admixture

Additional Information

For additional information on MasterPozzolith 322 admixture, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* Pozzolith 322 N became MasterPozzolith 322 under the Master Builders Solutions brand, effective January 1, 2014.

NSF Certified to NSF/ANSI 61

BASF Corporation
Admixture Systems
www.master-builders-solutions.basf.us

United States
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5544
Tel: 800 628-9990 ■ Fax: 216 839-8821

Canada
1800 Clark Boulevard
Brampton, Ontario L6T 4M7
Tel: 800 387-5862 ■ Fax: 905 792-0651

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

May cause eye or skin irritation. Contains Portland cement. Freshly mixed cement, mortar, concrete, or grout may cause skin injury.

1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
3. FLUSH THOROUGHLY WITH CLEAN WATER if direct contact to skin or eyes.
4. Seek medical attention if irritation persists.
5. KEEP CHILDREN AWAY.
6. WARNING: THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TERMS & CONDITIONS

By accepting delivery buyer agrees to the following terms:

1. We make all deliveries inside street side curb only and accept no responsibility for damage made inside lot.
2. A confined washout area must be provided and buyer assumes all responsibility and liability for cleaning the washout area.
3. All orders COD are to be paid by Cash, Visa, or Master Card, unless otherwise authorized.
4. There will be a $35 charge on all returned checks. Charge account balances are to be paid within 30 days of the original delivery date; all past due balances will result in all loss of discount, and subject to finance charges equal to 1-1/2% per month (18% APR). SEE NOTES & NOTICES BELOW

NOTICE TO PROPERTY OWNERS: Do Not rely upon this invoice as proof of payment. Property owners should be aware of all mechanic Lien laws. Customer further agrees to pay for expenses and costs including court & attorney's fees in connection with the collection of account.

Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
10:40		11:10				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	9:37	COD	45	BRETT	135	10/19/2015	174329

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST PATRICK

PO No.		Load No.	1	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY F1	130.00	9.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	9.00	$5.00	$45.00

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

BY: Fred Brown;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	
Other Chgs.	$955.94
Grand Total	$955.94

NOTES:
1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
2. **RC Readymix Co., Inc.** makes NO guarantees or warranties with respect to product's finished appearance, color, uniformity, cracks or popouts.
3. Any additional water added to this concrete will alter the water to cement ratio, and therefore reduce the strength.
4. This concrete is designed in accordance with ACI standards; any additional water added is at purchaser's risk.
5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

May cause eye or skin irritation. Contains Portland cement. Freshly mixed cement, mortar, concrete, or grout may cause skin injury.

1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
3. FLUSH THOROUGHLY WITH CLEAN WATER if direct contact to skin or eyes.
4. Seek medical attention if irritation persists.
5. KEEP CHILDREN AWAY.
6. WARNING: THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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4. There will be a $35 charge on all returned checks. Charge account balances are to be paid within 30 days of the original delivery date; all past due balances will result in all loss of discount, and subject to finance charges equal to 1-1/2% per month (18% APR). SEE NOTES & NOTICES BELOW

NOTICE TO PROPERTY OWNERS: Do Not rely upon this invoice as proof of payment. Property owners should be aware of all mechanic Lien laws. Customer further agrees to pay for expenses and costs including court & attorney's fees in connection with the collection of account.

Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
11 20	11 30	11 40	20			

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	10:38	COD	45	ERIC	125	10/19/2015	174332

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	2	Job Info	1030-1130	Water Added @ Job 0 gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY F1	130.00	18.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	18.00	$5.00	$45.00

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

BY: Fred Bowers;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY
X

Property Damage Release Authorized
X

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$1,911.88

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
2. **RC Readymix Co., Inc.** makes NO guarantees or warranties with respect to product's finished appearance, color, uniformity, cracks or popouts.
3. Any additional water added to this concrete will alter the water to cement ratio, and therefore reduce the strength.
4. This concrete is designed in accordance with ACI standards; any additional water added is at purchaser's risk.
5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

READ[illegible] INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

May cause eye or skin irritation. Contains Portland cement. Freshly mixed cement, mortar, concrete, or grout may cause skin injury.

1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
3. FLUSH THOROUGHLY WITH CLEAN WATER if direct contact to skin or eyes.
4. Seek medical attention if irritation persists.
5. KEEP CHILDREN AWAY.
6. WARNING: THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TERMS & CONDITIONS

By accepting delivery buyer agrees to the following terms:

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2. A confined washout area must be provided and buyer assumes all responsibility and liability for cleaning the washout area.
3. All orders COD are to be paid by Cash, Visa, or Master Card, unless otherwise authorized.
4. There will be a $35 charge on all returned checks. Charge account balances are to be paid within 30 days of the original delivery date; all past due balances will result in all loss of discount, and subject to finance charges equal to 1-1/2% per month (18% APR). SEE NOTES & NOTICES BELOW

NOTICE TO PROPERTY OWNERS: Do Not rely upon this invoice as proof of payment. Property owners should be aware of all mechanic Lien laws. Customer further agrees to pay for expenses and costs including court & attorney's fees in connection with the collection of account.

Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
1150	1200	1210				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	11:09	COD	45	AL	126	10/19/2015	174335

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	3	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDFIF	CONTROL DENSITY FI	130.00	27.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	27.00	$5.00	$45.00

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BY: Fred Vierra;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$2,867.82

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

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1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
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4. Seek medical attention if irritation persists.
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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
1115	1120	1130	15	—		

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	11:28	COD	45	TRENT	136	10/19/2015	174337

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	4	Job Info	1030-1130	Water Added @ Job ___0___ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDFIF	CONTROL DENSITY FI	130.00	36.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	36.00	$5.00	$45.00

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BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	
Other Chgs.	$955.94
Grand Total	$3,823.76

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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"Our Service is Concrete"

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

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2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
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TERMS & CONDITIONS

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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
12:15	12:40	12:55				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	11:33	COD	45	BRETT	135	10/19/2015	174338

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	5	Job Info	1030-1130	Water Added @ Job ____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDFIF	CONTROL DENSITY FI	130.00	45.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	45.00	$5.00	$45.00

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BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X_____

Property Damage Release Authorized
X_____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$4,779.70

NOTES:
1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

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TERMS & CONDITIONS

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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
12:55	1:05	1:15	20			

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	12:08	COD	45	RAY	137	10/19/2015	174341

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	6	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY F1	130.00	54.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	54.00	$5.00	$45.00

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BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$5,735.64

NOTES:
1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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"Our Service is Concrete"

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
1:35	1:35	1:50				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	12:58	COD	45	AL	126	10/19/2015	174344

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	7	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY FI	130.00	63.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	63.00	$5.00	$45.00

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BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road. Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$6,691.58

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

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TERMS & CONDITIONS

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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
145	150	200	15	—		

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	12:58	COD	45	TRENT	136	10/19/2015	174345

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	8	Job Info	1030-1130	Water Added @ Job ___ gals.	0	By Whom:	TSG	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY F1	130.00	72.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	72.00	$5.00	$45.00

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BY: Rod Brewer ;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$7,647.52

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Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

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Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
2:10	2:15	2:25				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	13:22	COD	45	BRETT	135	10/19/2015	174348

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	9	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDF1F	CONTROL DENSITY FI	130.00	81.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	81.00	$5.00	$45.00

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$8,603.46

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
2. **RC Readymix Co., Inc.** makes NO guarantees or warranties with respect to product's finished appearance, color, uniformity, cracks or popouts.
3. Any additional water added to this concrete will alter the water to cement ratio, and therefore reduce the strength.
4. This concrete is designed in accordance with ACI standards; any additional water added is at purchaser's risk.
5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

READYMIX CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

May cause eye or skin irritation. Contains Portland cement. Freshly mixed cement, mortar, concrete, or grout may cause skin injury.

1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
3. FLUSH THOROUGHLY WITH CLEAN WATER if direct contact to skin or eyes.
4. Seek medical attention if irritation persists.
5. KEEP CHILDREN AWAY.
6. WARNING: THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TERMS & CONDITIONS

By accepting delivery buyer agrees to the following terms:

1. We make all deliveries inside street side curb only and accept no responsibility for damage made inside lot.
2. A confined washout area must be provided and buyer assumes all responsibility and liability for cleaning the washout area.
3. All orders COD are to be paid by Cash, Visa, or Master Card, unless otherwise authorized.
4. There will be a $35 charge on all returned checks. Charge account balances are to be paid within 30 days of the original delivery date; all past due balances will result in all loss of discount, and subject to finance charges equal to 1-1/2% per month (18% APR). SEE NOTES & NOTICES BELOW

NOTICE TO PROPERTY OWNERS: Do Not rely upon this invoice as proof of payment. Property owners should be aware of all mechanic Lien laws. Customer further agrees to pay for expenses and costs including court & attorney's fees in connection with the collection of account.

Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
2:35	2140	2:55	20	9		

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	13:56	COD	45	JORGE	130	10/19/2015	174350

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	10	Job Info	1030-1130	Water Added @ Job _____ gals.		By Whom:		Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDFIF	CONTROL DENSITY FI	130.00	90.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	130.00	90.00	$5.00	$45.00

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

BY: Fred Burns ;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	$9,559.40

NOTES:
1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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3. Any additional water added to this concrete will alter the water to cement ratio, and therefore reduce the strength.
4. This concrete is designed in accordance with ACI standards; any additional water added is at purchaser's risk.
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"Our Service is Concrete"

READY... CO., INC.

Phone No. 925.449.7785
Fax No. 925.449.1691
1227 Greenville Road
Livermore, CA 94550

CAUTION

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1. Avoid all contact with eyes.
2. Avoid prolonged Contact with skin. Wear rubber gloves and boots.
3. FLUSH THOROUGHLY WITH CLEAN WATER if direct contact to skin or eyes.
4. Seek medical attention if irritation persists.
5. KEEP CHILDREN AWAY.
6. WARNING: THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TERMS & CONDITIONS

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2. A confined washout area must be provided and buyer assumes all responsibility and liability for cleaning the washout area.
3. All orders COD are to be paid by Cash, Visa, or Master Card, unless otherwise authorized.
4. There will be a $35 charge on all returned checks. Charge account balances are to be paid within 30 days of the original delivery date; all past due balances will result in all loss of discount, and subject to finance charges equal to 1-1/2% per month (18% APR). SEE NOTES & NOTICES BELOW

NOTICE TO PROPERTY OWNERS: Do Not rely upon this invoice as proof of payment. Property owners should be aware of all mechanic Lien laws. Customer further agrees to pay for expenses and costs including court & attorney's fees in connection with the collection of account.

Arrive Job	Start Pour	Finish Pour	Total Min.	Chargeable Min. @$1.50/Min. (M-F) @$2.00/Min. (Sat.)	Arrive Plant	
700	700	730				

COD (Yes/No)	Batch Time	Acct. No.	Allowable Min.	Driver	Truck No.	Date	Ticket No.
Y	14:19	COD	45	AL	126	10/19/2015	174351

Sold To: MAGNUS
*C*O*D* CASH ON DELIVERY
916-471-8210

Delivery Address: 7544 DUBLIN BLVD DUB
580 W.R>SAN RAMON R>DUBLIN R>GOLDEN GATE L>ST.PATRICK

PO No.		Load No.	11	Job Info	1030-1130	Water Added @ Job _____ gals.	By Whom:	Slump	5.00

Quantity This Load	Unit	Product Code	Description	Quantity Ordered	Quantity Delivered	Price Per Unit	Price Delivered
9.00	YD	CDFIF	CONTROL DENSITY FI	99.00	99.00	$92.00	$828.00
9.00	EA	SURCH1	ENVIROMENTAL FEE	99.00	99.00	$5.00	$45.00

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

BY: _____;
Deputy Weighmaster
Measured/Weighed at 1227 Greenville, Road, Livermore, CA 94550

ATTENTION: Signature below indicates that I have read all notices and disclaimers and agree to all terms.
LOAD RECEIVED BY

X _____

Property Damage Release Authorized

X _____

Sub Total	$873.00
Taxes	$82.94
Total Ticket	$955.94
Other Chgs.	
Grand Total	10,515.34

NOTES: 1. All traffic controls, flagmen, etc. are the responsibility and liability of the purchaser, and must conform to all applicable laws.
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4. This concrete is designed in accordance with ACI standards; any additional water added is at purchaser's risk.
5. **RC Readymix Co., Inc.** provides 5 minutes free per yard. Excess time will be charged at the standby rate.

"Our Service is Concrete"

ATTACHMENT F

Final Breakdown of Biopolymer Slurry Demonstration

10-20-2015

Well	Wtr tble	Visc.	Time
1	15'	29.8	10:15 am
2	16'	29.8	1:11 pm
3	17.6'	30.0	11:50 Am
4	18	29.4	12:01 pm
5	18	30.0	12:12 pm
6	18.5	30.0	12:21 pm

"Note" request By AMEC Doug (attorney)

4		29.5	1:45 pm

ATTACHMENT G

Central Concrete Supply Co Mix Design

Dublin Apartments

Submittal Number: 31 66 20-0002-00
Title: DDC's - Mix Design

7544 Dublin Boulevard
Dublin CA 94568

Project ID:
Owner: Dublin Apartment Properties, LLC
Construction Team: ZCON Builders
Design Team: BDE

Date Due: 10/20/2015
Date Issued: 10/07/2015
Substitution: No

Information

Types: Design Mixtures
Trades: Geotechnical Engineer, Structural Eng'r - Garage & Podium
Categories: N/A
Subcontractor/Manufacturer: Farrell Design-Build Co. Inc.

Stamps

ZCON Builders

This submittal has been reviewed for general compliance only as it relates to the CONTRACT DOCUMENTS. This review implies no approval of deviation from the plans and specifications, nor responsibility for errors or omissions in the submittal. The subcontractor shall remain responsible for all details required by the assembly confirmation of dimensions, fabrication and installation means and methods. This submittal shall not be used for the manufacture, assembly, fabrication, or installation with out the Architect's stamped approval.

Submittal No: 31 66 20-0002-00 Section No: [none]

Date: 10/07/2015 By: Sean McKinley

CENTRAL
CONCRETE SUPPLY COMPANY

9/28/2015
Customer Name: FARRELL DESIGN BUILD CO INC

Project Name: DUBLIN PKS
3025 VENTURE ROAD
PLACERVILE, CA 95667

Central Concrete Project #:

Central Concrete looks forward to the opportunity to partner with you on another successful project. Enclosed please find the following mix submittals and disclaimers:

Mix #	Usage	Design Strength (psi)
F0K100G5	SITE CONCRETE	1500

Enclosed are current proportions for the mix designs intended to be used for your project. Please see the list below including alternate materials that could be used. By approving these designs you acknowledge you are approving the use of these alternate materials.

Cement
Lehigh Permanente
Cal Portland Mojave
CEMEX Victorville
Cal Portland Nanjing

Pozzolan
Salt River Materials Group
Headwaters Resources
Nevada Cement

Slag
Lehigh Nippon

Low Shrink Coarse Aggregate
Granite-Aromas
Hanson-Orca
Hanson-Clayton
CEMEX-Clayton

Gravel Coarse Aggregate
Vulcan-Pleasanton
CEMEX-Eliot
Hanson-Sunol

Fine Aggregate
Vulcan-Pleasanton
Hanson-Orca
Hanson-SF Yard
Hanson-Oakland Yard
CEMEX-Eliot
Hanson-Sunol
Vulcan-Pilarcitos

Lightweight Coarse Aggregates
Glass Mountain Pumice
Frazier Park

Respectfully,

ALEX GILBERTSON-DOBBS

CENTRAL
CONCRETE SUPPLY COMPANY

9/28/2015

FARRELL DESIGN BUILD CO INC

Project Name: DUBLIN PKS

Customer/Project Number:

Project Address: 7544 DUBLIN BOULEVARD

(Please use this number when calling Central to order)

Below are current proportions for the mix designs intended to be used for your project. Please see the cover letter to see the alternate materials that could be used. By approving these design(s) listed you acknowledge you are approving the use of these alternate materials.

Mix # F0K100G5

Mix Description: 5.5sk Snd Slrry **Slump:** 8 ±

Usage: SITE CONCRETE **W/CM Ratio:** 0.74

Design Strength: 1500 PSI **Plant:** PLEASANTON (17)

Material Code	Description	Source Supplier	Design Quantity (lbs/cy)	Volume
Fine Aggregate	ASTM C 33 Fine Agg	Hanson-Oakland	1361 lb	8.32
Fine Aggregate	ASTM C 33 Fine Agg	Vulcan -Pleasanton	1361 lb	8.26
Cement	ASTM C150	Calportland-Nanjing China	329 lb	1.67
Fly Ash	ASTM C 618 Class F	SRMG-Four Corners	188 lb	1.51
Water	ASTM C1602	Central Concrete-Central Concrete	46.0 gal	6.15
Admixture	C260: Master Air AE 90	BASF -Cleveland	- -	-
Admixture	C494 Type A,F: Polyheed 9	BASF -Cleveland	- -	-
		Air Target:	4.00 %	1.08
		Totals:	3623 lb	27.00

Optional to be added upon request

Site Fresh	ASTM C 494 Type B & D	2 to 6
Site Set	ASTM C 494 Type C	10 to 45

CENTRAL
CONCRETE SUPPLY COMPANY

Concrete Mix Design Submittal

Date : 09/28/2015 No. 44423 Version 1
Mix Code : F0K100G5 Description : SITE CONCRETE

Sieve Size	Fine AUCSDA	Fine AUCBDA	Combined	Min	Max
2"	100.0	100.0	100.0		
1-1/2"	100.0	100.0	100.0		
1"	100.0	100.0	100.0		
3/4"	100.0	100.0	100.0		
1/2"	100.0	100.0	100.0		
3/8"	100.0	100.0	100.0		
No. 4	98.0	98.0	98.0		
No. 8	83.0	87.0	85.0		
No. 16	55.0	71.0	63.0		
No. 30	31.0	47.0	39.0		
No. 50	13.0	21.0	17.0		
No. 100	4.0	3.0	3.5		
No. 200	2.2	1.6	1.9		
DRUW lb/ft3					
% Agg	50.0	50.0			
% Fine Agg	50.0	50.0			
SG	2.62	2.64			
FM	2.73	3.16	2.98		

Prepared By :

ALEX GILBERTSON-DI Inside Sales

June 2, 2015

Hanson Aggregates
West Region
12667 Alcosta Blvd. #400
San Ramon, CA 94583
Tel 925 244-6500

OAKLAND CONCRETE SAND

The Oakland Concrete Sand supplied by Hanson Aggregates is extracted from Point Knox Shoals San Francisco Bay and processed at its Oakland, CA facility. The typical physical properties of the aggregate are summarized below. SMARA #'s: 91-38-0003; 91-38-0002

Gradation:

	Percent Passing		
Sieve Size	Oakland Concrete Sand	Caltrans Spec. Sec. 90	ASTM C 33 Spec.
9.50 mm (3/8")	100	100	100
4.75 mm (#4)	98	95 - 100	95 - 100
2.36 mm (#8)	87	65 - 95	80 - 100
1.18 mm (#16)	71 (66)	56 - 76 (X ± 10)	50 - 85
600 µm (#30)	47 (44)	35 - 53 (X ± 9)	25 - 60
300 µm (#50)	21 (20)	14 - 26 (X ± 6)	5 - 30
150 µm (#100)	3	2 - 12	0 - 10
75 µm (#200), C 117	1.6	0 - 8	
	(X-value)		
Fineness Modulus	2.73	-	2.3 - 3.1
Specific Gravity, Bulk S.S.D.	2.62	-	-
Absorption, %	0.5	-	-
Dry Rodded Unit Wt., pcf	97.0	-	-
Sand Equivalent, CTM 217	93	75 Min.	-
Organic Impurities, CTM 213	Clear	S	Clear
Rel. Mortar Strength, C 87, CTM 515	95%	95% Min.	-
Sod. Sulfate Sound, C 214	2.0%	10% Max.	10% Max.
Fine Durability, d_f CTM 229	80	60 Min.	
Deleterious Substances:			
Clay & Friables, C 142	1.0%	-	3.0% Max.
Lt. Wt. Particles, C 123	0.4%	-	0.5% Max.
Alkali Reactivity			
ASTM C 289	Innocuous	I	I

Should you have questions regarding this aggregate material, please do not hesitate to call your Sales Representative.

LEHIGH HANSON

Franco H. Siño
Quality Control Manager

Vulcan
Materials Company

Pleasanton Plant
SMARA 91-01-0010

June, 2015

To:

Subject: 31822 - Top Sand Submittal

Project:

Please find below the laboratory test results. We certify that the fine aggregate produced at our Pleasanton operation meets the requirements of the American Society of Testing and Materials, ASTM C 33 and Caltrans Section 90. Our most recent test data presented for your review:

31822 - TOP SAND

GRADATION			
SIEVE SIZE	PERCENT PASSING	ASTM SPECIFICATION	CALTRANS SEC. 90
3/8" (9.5 mm)	100	100 - 100	100
No. 4 (4.75 mm)	99	95 – 100	95 – 100
No. 8 (2.36 mm)	85	80 – 100	65 – 95
No. 16 (1.18 mm)	58	50 – 85	(X=57±10) 47 – 67
No. 30 (600 µm)	33	25 - 60	(X=34±9) 25 – 43
No. 50 (300 µm)	13	5 - 30	(X=16±6) 10 – 22
No. 100 (150 µm)	3	0 - 10	2 – 12
No. 200 (75 µm)	1.6	0 – 5	0 – 8

PHYSICAL PROPERTIES

ASTM STANDARD	FINE AGGREGATE ASTM C 33
Specific Gravity (SSD)	2.670
Sand Equivalent	80
Absorption	1.2%
Fineness Modulus	3.08
Fine Durability Index	70
ASTM C 88 – Sodium Sulfate Soundness (Fine)	1.3%
ASTM C 117 – Material Finer Than #200	1.60%
ASTM C123 – Light Weight Particles	0.3%
ASTM C142 – Clay Lumps & Friable Particles	0.0%
ASTM C40 Organic Impurities – Standard Color Procedure	(1) Lighter - Satisfactory

Respectfully,
Vulcan Materials Company

Curtis Gilbert
Technical Services

***If no customer and/or job name is noted, this submittal expires 90 days from date above.**

CALPORTLAND

Certificate of Analysis

CalPortland - Stockton Terminal

230 Port Road #3, Stockton, California, 95203 - Telephone: (209) 469-0109

We herby certify that CalPortland Type II/V Low Alkali cement, sourced from Nanjing China, meets the standard requirements of ASTM C150 specification for Type II and Type V cement. Additionally, the Type II/V cement meets the requirements of Caltrans Standard Section 90-1.02(B). Below are the chemical and physical data pertaining to Lot# 15-222.

ASTM C150 Type II/V Requirements

Ship Name: Sinfonia

Report Date: 8/10/2015

	Type II Requirements	Type V Requirements	Analysis Results	Limestone Analysis
Chemical Analysis				
Silicon dioxide (SiO_2), %	---	---	20.0	1.6
Aluminum oxide (Al_2O_3), max, %	6.0	---	3.6	0.8
Ferric oxide (Fe_2O_3), max. %	6.0	---	3.7	0.2
Calcium Oxide (CaO), %	---	---	64.9	53.2
Magnesium oxide (MgO), max. %	6.0	6.0	0.9	0.3
Sulfur trioxide (SO_3), max, %	3.0 [1]	2.3 [1]	2.6	0.1
Loss on ignition, max, %	3.0	3.0	2.5	
Insoluble residue, max, %	0.75	0.75	0.20	Base
Equivalent Alkalies, max, %	0.60	0.60	0.49	Cement
Tricalcium silicate (C_3S), %	--- [3]	---	68	70
Dicalcium Silicate (C_2S), %	---	---	6	6
Tricalcium aluminate (C_3A), max, %	8	5	3	3
Tetracalcium aluminoferrite (C_4AF), %	---	---	11	12
C4AF + 2*(C3A), max,%	---	25	18	
CO_2, %	---	---	1.6	
Limestone Addition, max, %	5.0	5.0	3.7	
$CaCO_3$ in Limestone, min, %	70	70	95	
Physical Requirements				
Air content of mortar, max, volume %	12	12	8.1	
Passing 45um (#325) sieve, %	---	---	97.8	
Blaine Fineness, min, m^2/kg	260/---	260/---	372	
Autoclave expansion, max, %	0.8 [2]	0.8 [2]	-0.04	
Compressive strength, min, Mpa [psi]				
3 Day Mpa	10.0	8.0	27.0	
psi	1450	1160	3910	
7 Day Mpa	17.0	15.0	32.8	
psi	2470	2180	4750	
28 Day Mpa	---	21.0		8/26/2015
psi	---	3050		
Time of Setting : Vicat	45 - 375	45 - 375	155	
C1038 expansion, max, %	0.020	0.020		

Apparatus and methods used in this laboratory have been checked by the Cement and Concrete Reference Laboratory of the National Institute of Standards and Technology. A copy of the report detailing their findings is available upon request. Major Oxides are analyzed by X-ray Fluorescence Spectrometry.

Note 1: ASTM C150, Table 1, Note D, it is permissible to exceed the values in the table for SO_3 content, provided it has been demonstrated by Test Method C1038 that the cement with the increased SO_3 will not develop expansion exceeding 0.020% at 14 days.

Note 2: Caltrans Specification Sec. 90-1.02B(2): Autoclave expansion shall not exceed 0.50 %.

Note 3: Caltrans Specification Sec. 90-1.02B(2): Type II cement C_3S content shall not exceed 65%.

Gary Kirk

Cement Technical Sales Manager

Salt River Materials Group

100% AMERICAN

Central Concrete Supply Co Inc
Attn: Kelly Idiart
830 W Elkhorn Blvd
Rio Linda, CA 95673-3006

Product: ASTM C618 Class F, Gallup Fly Ash
AASHTO M295

POZZOLAN TEST REPORT

6-21-15 Ctl#: 105407

Lot: 770564	**Results**	**Specifications**
Chemical Analysis (C311 / C114 / D4326)		
Silicon Dioxide, SiO_2	61.61 %	---
Aluminum Oxide, Al_2O_3	24.15 %	---
Ferric Oxide, Fe_2O_3	4.25 %	---
$SiO_2+Al_2O_3+Fe_2O_3$	90.01 %	70.00 Min
Calcium Oxide, CaO	2.30 %	---
Magnesium Oxide, MgO	1.14 %	---
Sulfur Trioxide, SO_3	0.21 %	5.00 Max
Moisture Content	0.03 %	3.00 Max
Loss on Ignition	0.28 %	6.00 Max
Sodium Oxide, Na_2O	1.12 %	---
Potassium Oxide, K_2O	1.14 %	---
Total Alkalis (%Na_2O + 0.658% K_2O)	1.87 %	---
Available Alkalis as Na_2O Equivalent	0.45 %	---
Physical Analysis		
Fineness, amount retained on		
#325 sieve, % (C430)	23.00	34.00 Max
variation, points from average	0.12	5.00 Max
Density, g/cm³ (C188)	1.99	---
Variation from average, %	0.03	5.00 Max
Strength Activity Index		
with Portland Cement (C311 / C109)		
at 7 days, % of cement control	75.60	---
at 28 days, % of cement control	89.84	75.00 Min
Water Requirement (C311)		
% of cement control	95.87	105.00 Max
Soundness, autoclave expansion (C311 / C151)		
or contraction, %	-0.02	0.80 Max

All tests have been made in strict accordance with the current standards of the American Society for Testing and Materials covering the type of material specified.

Lee Gorby, Quality Assurance Manager
03 AUG 2015

AAP AASHTO R18

PHOENIXCEMENT

Clarkdale Cement Plant
601 N. Cement Plant Rd
Clarkdale, AZ 86324

19th Ave. Terminal
1802 W. Lower Buckeye Rd
Phoenix, AZ 85007

Lower Buckeye Terminal
1941 W. Lower Buckeye Rd
Phoenix, AZ 85007

21st Ave. Terminal
1325 N. 21st Ave.
Phoenix, AZ 85009

54th Ave. Terminal
5402 W Buchanan St.
Phoenix, AZ 85043

Dobson Storage
9595 E. McKellips Rd.
Scottsdale, AZ 85250

Cholla Fly Ash Plant
4801 Frontage Rd.
Joseph City, AZ 86032

Four Corners Fly Ash Plant
End of County Road 6675
Fruitland, NM 87416

San Juan Fly Ash Plant
End of County Road 6800
Waterflow, NM 87421

Escalante Fly Ash Plant
County Road 19
Prewitt, NM 87405

Gallup Transfer Terminal
900 N 9th St.
Gallup, NM 87301

San Diego Terminal
920 Bay Marina Dr.
National City, CA 91950

Fontana Budway Terminal
13600 Napa St.
Fontana, Ca 92335

Bakersfield Terminal
32535 7th Standard Rd.
Bakersfield, CA 93314

Stockton Terminal
1300 N. Gertrude Ave.
Stockton, CA 95215

Sacramento Terminal
4520 50th St.
McClellan Park, CA 95652

Panaca Pozzolan Plant
333 Hansen St.
Panaca, NV 89042

Big Lift Terminal
6996 W. Titan Rd.
Littleton, CO 80125

CENTRAL
CONCRETE SUPPLY COMPANY

A U.S. CONCRETE COMPANY

Product: Mixing water used in the Production of Ready Mix Concrete

8/1/2015 **Water Test Report**

Density: The water density for all Central Concrete production facilities are monitored with an automated device conforming to ASTM C 1603. Documentation of procedures and calibration are maintained at each production facility and can be made available upon request.

TABLE 1 Performance Requirements for Mixing Water

	Limits
Compressive strength, min % control at 7 days[A]	90
Time of setting, deviation from control, h: min[A]	From 1:00 earlier to 1:30 later

[A]Comparisons shall be based on fixed proportions for concrete or mortar mixtures. The control mixture shall be made with 100 % potable or distilled water. The test mixture shall be made with the mixing water that is being evaluated. (See Annex A1).

Compressive Strength

	Mix Design	Specific Gravity	Control	Gray
11-Aug-14	450PC5C1	1.09	100%	103%
29-Oct-14	6081	1.10	100%	119%
18-Nov-14	604CC	1.09	100%	101%
12-Dec-14	330PG9Q1	1.09	100%	105%
21-Jan-15	6012	1.07	100%	106%
17-Feb-15	3E5EC9D1	1.06	100%	105%
20-Mar-15	3E5EG9E1	1.03	100%	104%
22-Apr-15	356EG9C1	1.06	100%	99%
24-Jun-15	350PG9E1	1.08	100%	97%
17-Jul-15	4E5EC5C1	1.08	100%	97%

Time of Setting

	Mix Design	Control	Gray	Deviation from Control
11-Aug-14	450PC5C1	5 00	4 65	-0 21
29-Oct-14	6081	3 60	3 85	0 15
18-Nov-14	604CC	2 85	3 03	0 12
12-Dec-14	330PG9Q1	4 72	4 13	-0 35
21-Jan-15	6012	4 97	4 72	-0 15
17-Feb-15	3E5EC9D1	3 15	3 00	-0 25
20-Mar-15	3E5EG9E1	4 63	4 45	-0 11
22-Apr-15	356EG9C1	4 33	4 21	-0 07
24-Jun-15	350PG9E1	4 50	4 08	-0 25
17-Jul-15	4E5EC5C1	4 50	4 08	-0 25

TABLE 2 Optional Chemical Limits for Combined Mixing Water[A]

	Limits	Test Method
Maximum concentration in combined mixing water, ppm[B]		
A. Chloride as Cl^-, ppm		
1 In prestressed concrete, bridge decks, or otherwise designated	500[C]	C114[D]
2 other reinforced concrete in moist environments or containing aluminum embedments or dissimilar metals or with stay-in-place galvanized metal forms	1000[C]	C114[D]
B. Sulfate as SO_4, ppm	3000	C114[D]
C. Alkalies as (Na_2O + 0.658 K_2O), ppm	600	C114[D]
D. Total solids by mass, ppm	50 000	C1603

Corporate Office
755 Stockton Avenue
San Jose, CA 95126

West Bay
San Jose
790 Stockton Avenue
889 Stockton Avenue
457 Queens Lane

South San Francisco
1305 San Mateo Avenue

Redwood City
635 Seaport Avenue

East Bay
Martinez
893 Waterbird Way

Pleasanton
1645 Stanley Boulevard

Oakland
2400 Peralta Street
401 Embarcadero Street

Hayward
1844 W. Winton Avenue

Brentwood
11911 Brentwood Boulevard

Bode
San Francisco
450 Amador Way

BASF

The Chemical Company

November 25, 2014

Central Concrete Supply

Attention: Mike Donovan

Certificate of Conformance
MasterAir® AE 90 Admixture (formerly MB-AE 90)
BASF Corporation Air-Entraining Admixture for Concrete"

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:
That MasterAir AE 90 admixture is a BASF Corporation Air-Entraining Admixture for concrete; and
That MasterAir AE 90 and MB AE 90 admixture are the same product having identical composition, differing only in designation; and
That no calcium chloride or chloride based ingredient is used in the manufacture of MasterAir AE 90 admixture; and
That MasterAir AE 90 admixture, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.000068 percent (0.68 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and
That MasterAir AE 90 admixture meets the requirements of ASTM C260, the Standard Specification for Air-Entraining Admixtures for Concrete, as well as the requirements for air-entraining admixtures as specified in Corps of Engineers' CRD-C 13 and AASHTO M154.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist

BASF Corporation
Admixtures Systems
23700 Chagrin Boulevard
Cleveland, Ohio 44122
Telephone (216) 839-7500

MASTER® BUILDERS SOLUTIONS

BASF

The Chemical Company

November 25, 2014

Central Concrete Supply

Attention: Mike Donovan

Certificate of Conformance
MasterPolyheed® 997 Admixture (formerly PolyHeed 997)
BASF Corporation Admixture for Concrete

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:
That MasterPolyheed 997 admixture is a BASF Corporation Mid-Range Water-Reducing Admixture for concrete; and
That MasterPolyheed 997 and PolyHeed 997 admixture are the same product having identical composition, differing only in designation; and
That no calcium chloride or chloride based ingredient is used in the manufacture of MasterPolyheed 997 admixture; and
That MasterPolyheed 997 admixture, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00012 percent (1.2 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and
That MasterPolyheed 997 admixture meets the requirements for a Type A, Water-Reducing Admixture, and Type F, Water-Reducing, High Range Admixture specified in ASTM C494/C494M, the Standard Specification for Chemical Admixtures for Concrete, as well as the requirements of Type A and Type F admixtures as specified in Corps of Engineers' CRD-C 87 and AASHTO M194.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist

BASF Corporation
Admixtures Systems
23700 Chagrin Boulevard
Cleveland, Ohio 44122
Telephone (216) 839-7500

MASTER® BUILDERS SOLUTIONS

ATTACHMENT H

Potrero Hills Landfill Special Waste Profile, Disposal Log, & Manifests

Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585
Phone: 707.432.4622
Fax: 707.426.5013

WASTE CONNECTIONS INC.
Connect with the Future®

FOR OFFICE USE ONLY
APPROVAL NUMBER:
EXPIRATION DATE:
APPROVED BY:

SPECIAL WASTE PROFILE

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material. The information on this form must be COMPLETELY FILLED OUT, TYPE WRITTEN, and the form must be SIGNED BY AUTHORIZED REPRESENTATIVE.

A. GENERATOR INFORMATION

1. Generator Name: DUBLIN APARTMENT PROPERTIES LLC#
2. Address: 2 Henry Adams Street, Suite 450
   City: San Francisco | County:
   State: CA | Zip: 94103
3. Site Location (if different): 7544 Dublin Blvd, Dublin, CA
4. Contact Name: Adam Lambert
5. Phone Number: 415-509-1441 | 6. Fax Number: - -
7. Email Address: adam@baywestdevelopment.com
8. State Facility ID # (if applicable): N/A
9. State Waste Code (if applicable): N/A

B. CUSTOMER/BILLING INFORMATION

1. Billing Name: Bradley Tanks, Inc
2. Address: 402 Hartz Avenue, Building C
   City: Danville | County: Contra Costa
   State: CA | Zip: 94526
3. Contact Name: Kelly Graser
4. Phone Number: 510-207-9927 | 5. Fax Number: 510-803-5084
6. Email Address: kgraser@btienvironmental.com
7. Is there a service agreement on file? ☐ YES ☐ NO
8. Agent / Consultant:
9. Letter of Authorization: ☐ YES ☐ NO

C. TRANSPORTER/SHIPPING INFORMATION

1. Name: Bradley Tanks, Inc
2. Street Address: 402 Hartz Avenue, Building C
   City: Danville | State: CA | Zip: 94526
3. Phone Number: 510-207-9927 | 4. Fax Number: 510-803-5084
5. Contact Name: Jessica Carr
6. EPA or State Transporter ID #: CAR000224568
7. Designated Landfill(s): Potrero Hills LF
8. Packaging: ☒ Bulk Solids ☐ Bulk Liquids ☐ Drums ☐ Roll-Off ☐ Dump Truck ☐ Tank Truck ☐ Vacuum Box ☐ Bagged
9. Estimated Volume: 600
   ☒ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other: ____
10. Shipping Frequency: ____ per ☒ One Time Project
    ☐ Month ☐ Quarter ☐ Year ☐ Other: ____

D. WASTE STREAM INFORMATION

1. Common Name of Material or Waste Stream: Non-hazardous Soil
2. Detailed Description of Process or How Generated (Attach additional sheet if needed):
   Soil Excavated to install underground PRB wall to treat/keep groundwater contaminated w/ fuel and VOCs from entering residential site
3. Physical State at 70°F: ☒ Solid ☐ Semi-Solid ☐ Sludge ☐ Liquid ☐ Powder ☐ Other ____
4. Free Liquids: ☒ NO ☐ YES % Liquids
5. Color: Brown | 6. pH Range: N/A
7. Odor: ☒ None ☐ Mild ☐ Significant Describe:
8. Flash Point: N/A ☐ °F ☐ °C
9. Reactive: ☒ NO ☐ YES with
10. State Required Information (if applicable): N/A

E. NON-HAZARDOUS DETERMINATION

1. Attached Document(s) (check all that apply): ☐ Not Applicable ☐ MSDS ☒ Certified Analytical Report ☐ Process Knowledge
2. If Process Knowledge, provide details: Gasoline, diesl and VOCs are from off-site source - source of VOCs is unknown
3. If analytical data is attached, is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws?
   ☒ YES ☐ NO Type of Sample: ☒ Composite ☐ Grab

F. CERTIFICATION INFORMATION

1. ☒ Initial ☐ Recertification, list prior approval number(s): ☐ Amendment, Details:
2. Have there been any changes to the composition of, or process generating this waste stream that would alter the characteristics of the waste stream?
   ☐ YES ☒ NO (Updated analysis may be required.)

G. WASTE CERTIFICATION STATEMENT:

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, labeled, and prepared as indicated. I certify this waste is not hazardous or dangerous as defined by the U.S. EPA, or the state or province of origin. I certify this waste does not contain any regulated radioactive materials, that all known and suspected hazards have been disclosed, and that the waste is not a regulated hazardous waste by government or local authority, and does not contain PCB's regulated by TSCA or any other regulatory authority. I certify that all samples used for this analysis are representative of the materials described herein. I understand that all wastes may undergo inspection upon arrival at the designated facility and may be refused if the delivered material does not conform to the description herein. Notification will be provided immediately if there is a change in the composition of, or process generating this waste stream, prior to offering the waste for shipment or management.

Adam Lambert owner rep
AUTHORIZED REPRESENTATIVE NAME/TITLE

AUTHORIZED REPRESENTATIVE SIGNATURE

Bay West Development
COMPANY NAME

10-21-15
DATE COMPLETED

Magnus Pacific
Dublin Apartments Project
Non-Hazardous Soil to Potrero Hills Landfill

Total Tons 742.56
Total Loads 31

Date	Approval	Ticket	Tons
10/26/2015	PHLF15663	612731	19.42
10/26/2015	PHLF15663	612758	25.46
10/26/2015	PHLF15663	612764	25.02
10/26/2015	PHLF15663	612765	25.12
10/26/2015	PHLF15663	612773	23.58
10/26/2015	PHLF15663	612778	23.88
10/26/2015	PHLF15663	612852	24.52
10/26/2015	PHLF15663	612861	23.78
10/26/2015	PHLF15663	612873	23.05
10/26/2015	PHLF15663	612889	25.93
10/26/2015	PHLF15663	612890	23.07
10/26/2015	PHLF15663	612894	23.15
10/27/2015	PHLF15663	613059	22.58
10/27/2015	PHLF15663	613070	22.94
10/27/2015	PHLF15663	613075	24.18
10/27/2015	PHLF15663	613100	22.72
10/27/2015	PHLF15663	613105	26.91
10/27/2015	PHLF15663	613109	23.73
10/27/2015	PHLF15663	613112	25.57
10/27/2015	PHLF15663	613120	24.11
10/27/2015	PHLF15663	613182	23.27
10/27/2015	PHLF15663	613190	23.76
10/27/2015	PHLF15663	613207	23.50
10/27/2015	PHLF15663	613217	22.77
10/27/2015	PHLF15663	613219	24.28
10/27/2015	PHLF15663	613226	22.91
10/27/2015	PHLF15663	613267	24.25
10/27/2015	PHLF15663	613283	27.90
10/28/2015	PHLF15663	613428	23.06
10/28/2015	PHLF15663	613449	25.57
10/28/2015	PHLF15663	613526	22.57

1ST morning

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	800-375-3336	BIT 2827

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1401

Generator's Site Address (if different than mailing address): 7344 Dublin Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley TANKS, INC — U.S. EPA ID Number: CAD044745628

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for EK phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 16 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kyle True — Signature — Month 10 Day 16 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	800-373-3138	BIT 3837

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): 4545 Dublin Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Santa Fe Trucking — U.S. EPA ID Number: CAR000168799

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4527 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for ER phone # is BF31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Adam Lubitz — Signature — Month: 10 — Day: 25 — Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:

Transporter Signature (for exports only): — Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Santiago Ruiz — Signature: S. Ruiz — Month: 10 — Day: 26 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-913-3338	BTI 2831

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1041

Generator's Site Address (if different than mailing address)
7344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
SS BAINS

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for EK phone # is EF31029

#33
WP5639
NR 4115

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year
10 | 26 | 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
SURJIT S BAINS
Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5338	EH 2830

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: T.E.C. PUNO TRANSPORT — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	CT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-665
Account # for ER phone # is ER31029
9F28302
#2223

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 16 Year 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PABLO E. PUNO — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-575-5330	BTT 3029

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7594 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name 2 B.T.T. 402 Hearts Danville — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval #PHLF-15-663
Account # for BF phone # is BR31029
MOT

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 — Day 26 — Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: AMANDA HAR & ME — Signature — Month 12 — Day 26 — Year 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	BTI 2828

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Harry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7544 Dublin Blvd.
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
K S S BAINS

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-3627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval #PHLF-15-663
Account # for BR phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 10 | Day 26 | Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: K HARDEEP SINGH | Signature | Month 10 | Day 26 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

2nd Afternoon

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-3336	BTT 2834

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): 7344 Dublin Blvd. Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: B.T.I 402 HAULS DEMOLITION — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-653
Account # for ER phone # is BR31029

M07

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 22 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MANOHAIL Sucha — Signature — Month 10 Day 22 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone: 888-375-5336
4. Waste Tracking Number: EIT 2838

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
4344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley Tanks, Inc
U.S. EPA ID Number: CAR000224868

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627
U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for EE phone # is EE31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Alan Lambert
Signature:
Month: 10 Day: 26 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve Kyles
Signature:
Month: Day: Year:

Transporter 2 Printed/Typed Name
Signature
Month: 10 Day: 26 Year: 15

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: Day: Year:

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	[illegible]	[illegible]

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Harry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1661

Generator's Site Address (if different than mailing address): 7324 Colorado Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Santa fe Trucking — U.S. EPA ID Number: CAR000168799

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for ER phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Adam Lenard — Signature — Month: 10 Day: 26 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Santiago Ruiz. — Signature: Ruiz. — Month: 10 Day: 26 Year: 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone: 800-373-5536
4. Waste Tracking Number: BTT 2836

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): 7349 Dublin Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: P.E.P. PUNO TRANSPORT — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-863
Account # for EE phone # is ER31029

#12223

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Mendenhall — Signature: [signature] — Month: 10 Day: 26 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PABLO E. PUNO — Signature: [signature] — Month: 10 Day: 26 Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: S & S BRIAS — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for ER phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: A. Lenhart — Signature — Month: 10 Day: 26 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SARBJIT S BRIAS — Signature — Month: 10 Day: 26 Year: 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	800-375-3336	BIT 2833

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1001

Generator's Site Address (if different than mailing address): 7544 Dublin Blvd., Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: S S BAINS — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4527 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for BT phone # is BB71029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 26 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HARDEEP SINGH — Signature — Month 10 Day 26 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Bridgeview Apartment Properties LLC
2 Harry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
Bradley Tanks Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-863
Account # for ER phone # is ER51029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year
10 | 26 | 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Jose Herrera | Signature | Month | Day | Year
10 | 27 | 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	BTI 2822

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-309-1441

Generator's Site Address (if different than mailing address)
7349 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
Bradley Tanks Inc

U.S. EPA ID Number
CAR000224168

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-863
Account # for EF phone # is BP31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 10 | Day 26 | Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio H. Gomez | Signature | Month 10 | Day 27 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-503-1661

Generator's Site Address (if different than mailing address)
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Santa fe TRUCKing — U.S. EPA ID Number: CAR000168795

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-383
Account # for ER phone # is ER31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 26 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Santiago Ruiz. — Signature — Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
VERONICA TRUCKING

U.S. EPA ID Number
CAR000183657

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for EE phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 10 | Day 26 | Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HUGO VERONICA | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	925-973-3330	BTI 2824

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-909-1441

Generator's Site Address (if different than mailing address): 12 Commerce Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: S S BAINS — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non- Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information: Approval # PHLF-15-003; Account # for EB phone # is EB31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mani Lal — Signature — Month: 10 — Day: 2 — Year: 14

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HARDEEP SINGH — Signature — Month: 10 — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: * JBARRA TRUCKING — U.S. EPA ID Number: CAL000703964

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Soil	1	DT	18	CY	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for EE phone # is EE31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 26 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: * ISMAEL ISMAIL — Signature — Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	STI 7820

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Mel's Trucking — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627
U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Soil	1	DT	18	CY	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-665
Account # for ER phone # is DR21029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: M. A. L. — Signature — Month: 10 — Day: 26 — Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mel Cash — Signature — Month: 10 — Day: 27 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	888-341-3330	511 2819

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1403

Generator's Site Address (if different than mailing address)
7382 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: 1 STAR TRG — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLP-15-563
Account # for ER phone # is BR31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 — Day: 26 — Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kadar Ali — Signature: [signature] — Month: 10 — Day: 27 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

112 / WP41891

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	BTI 2818

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7544 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley Tanks inc — U.S. EPA ID Number:

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Soil	1	DT	18	CY
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for ER phone # is ER31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible signature-name] — Signature: [signature] — Month 10 Day [illegible] Year [illegible]

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jose Hernandez — Signature: [signature] — Month 10 Day 27 Year [illegible]
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	BTI 2801

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7544 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley Tanks Inc — U.S. EPA ID Number: CAR000224568

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-429-9800

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for EK phone # is EF31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tom Lenhart — Signature — Month 10 Day 27 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio H. Gomez — Signature — Month 10 Day 27 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

* NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 888-515-5330	4. Waste Tracking Number 811 3802

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1401
Generator's Site Address (if different than mailing address): 7544 Dublin Blvd, Dublin, CA
Generator's Phone:

6. Transporter 1 Company Name: Santa Fe Trucking — U.S. EPA ID Number: CAD 000168799

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-429-9900 — U.S. EPA ID Number: N/A
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for BP phone # is BP31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Adam Lenat — Signature — Month: 10 Day: 27 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Santiago Ruiz. — Signature: Ruiz — Month: 10 Day: 27 Year: 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5330	EFI 2803

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1001

Generator's Site Address (if different than mailing address)
7544 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
VERONICA TRUCKING

U.S. EPA ID Number
CAR000183657

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-429-9600

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for ER phone # is ER21029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 10 | Day 27 | Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HUGO | Signature | Month 10 | Day 27 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	800-375-5336	BTI 2804

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-503-1441

Generator's Site Address (if different than mailing address)
7544 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: IBARRA TRUCKING — U.S. EPA ID Number: CAL000405964

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-429-9600

U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	BT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for BT phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Adam Lenfest — Signature — Month: 10 — Day: 2 — Year:

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BRIAN IBARRA — Signature — Month: 10 — Day: 27 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	800-719-3330	817 2817

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
S S BAINS

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.	T.I.C. No: 9D0092					
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for ER phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month 10 | Day 26 | Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HARDEEP SINGH | Signature | Month 10 | Day 27 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 888-375-5336	4. Waste Tracking Number BTI 2816

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): 7544 Dublin Blvd. Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: 1 STAR TRG — U.S. EPA ID Number:

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non- Hazardous Soil	1	DT	18	CY
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Approval # PHLF-15-663

Account # for ER phone # is BR31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible handwriting] — Signature: [signature] — Month 10 Day 28 Year 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kadar Ali — Signature: [signature] — Month 10 Day 28 Year 15

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	888-313-3330	BIT [illegible] 2815

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1661

Generator's Site Address (if different than mailing address)
7344 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
Mel Thomas Co.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for RR phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mike DeLeo
Signature:
Month: 10 Day: 26 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mr. Owen
Signature:
Month: 10 Day: 27 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5538	BTI 2812

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address): 7544 Dublin Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley Tanks LLC — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval #PHLF-15-653

Account # for ER phone # is BR31029

Clean UP Load

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 — Day: 26 — Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Scott Hernandez — Signature: [signature] — Month: 10 — Day: 28 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-913-3138	BTI 2813

GENERATOR

5. Generator's Name and Mailing Address: Dublin Apartment Properties LLC, 2 Henry Adams Street, Suite 450, San Francisco, CA 94103 415-509-1841

Generator's Site Address (if different than mailing address): 7555 Dublin Blvd, Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name: Bradley Tanks INC — U.S. EPA ID Number: CAR000224568

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Lane, Suisun, CA 94585 707-432-4627 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	UT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Approval #PHLF-TS-663

Account # for BF phone # is BF31029

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 Day 22 Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio H. Gomez — Signature — Month 10 Day 28 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	888-375-5336	ETT 7214

GENERATOR

5. Generator's Name and Mailing Address
Dublin Apartment Properties LLC
2 Henry Adams Street, Suite 450
San Francisco, CA 94103 415-509-1441

Generator's Site Address (if different than mailing address)
7244 Dublin Blvd
Dublin, CA

Generator's Phone:

6. Transporter 1 Company Name
A Bradley Tanks Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Lane
Suisun, CA 94585 707-432-4627

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	1	DT	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Approval # PHLF-15-663
Account # for ER phone # is BR31029

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year
10 | 27 | 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
A Bradley Tanks Inc | 10 | 27 | 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

ATTACHMENT I

DSRSD Industrial Wastewater Discharge Permit & Disposal Log

Tino Maestas

From: Judy Zavadil <zavadil@dsrsd.com>
Sent: Tuesday, October 27, 2015 9:40 AM
To: Tino Maestas; Erik Kuefner
Cc: Matt Marks; doug.bablitch@amecfw.com; Steven Delight; Dan McIntyre
Subject: RE: Magnus Pacific: Request for Waiver to Discharge to the DSRSD Sanitary Sewer

Tino,

As Acting District Engineer I approve your request for a waiver to discharge wastewater with a total dissolved solids concentration exceeding 1000 mg/l. Please work with Erik Kuefner on the location, timing and rate of disposal of the drilling fluid.

Regards,

Judy Zavadil
Principal Civil Engineer
Dublin San Ramon Services District
7051 Dublin Blvd, Dublin, CA 94568
925-875-2272

From: Tino Maestas [mailto:TMaestas@magnuspacific.com]
Sent: Monday, October 26, 2015 3:39 PM
To: Erik Kuefner <kuefner@dsrsd.com>
Cc: Judy Zavadil <zavadil@dsrsd.com>; Matt Marks <MMarks@magnuspacific.com>; doug.bablitch@amecfw.com
Subject: Magnus Pacific: Request for Waiver to Discharge to the DSRSD Sanitary Sewer

Judy,

Attached is our request for waiver. Please let me now if you require a more formal process that may be required for your review and approval.

We are hopeful to receive approval for our request as soon as possible to continue our demobilization progress this week.

I am available whenever necessary to provide further information, clarify concerns, or otherwise expedite your review. The analytical data in support of our request has been submitted to Erik. I have re-submitted this information at attachments to this email.

You can call me directly at 916-471-8210.

Thank you,

TINO B MAESTAS, P.E.
Project Director

6558 Lonetree Blvd, Rocklin, CA 95765
Office: 916.462.6419
Cell: 916.471.8210
magnuspacific.com

From: Erik Kuefner [mailto:kuefner@dsrsd.com]
Sent: Monday, October 26, 2015 11:47 AM
To: Tino Maestas
Cc: Judy Zavadil
Subject: RE: 150019. - C&T Data (270885)

Hi Tino,

I heard back from the Acting District Engineer, Judy Zavadil. I've cc'd her on this email, so if you attach the request to waive the TDS local limit, go ahead and "reply all".

Thanks,

Erik

From: Tino Maestas [mailto:TMaestas@magnuspacific.com]
Sent: Saturday, October 24, 2015 8:24 AM
To: Erik Kuefner <kuefner@dsrsd.com>
Subject: FW: 150019. - C&T Data (270885)

Hi Eric,

We continue to have high concentrations of TDS. After further inquiry, this is attributed to our drilling fluid matrix. The guar gum that we use for manufacturing our slurry is the dissolved solids portion.

I would appreciate any expertise that you may offer. In the mean time, I am in discussion with a few of my water treatment specialist to see what I can do to reduce the TDS concentration. I am also looking into disposal at East Bay Municipal Utility District of the fluid as-is.

Does the DSRSD offer direct-disposal?

Anyway, we are not discharging this weekend.

I will call you on Monday to discuss.

Tino

From: Will Rice [mailto:will.rice@ctberk.com]
Sent: Friday, October 23, 2015 5:25 PM
To: Tino Maestas
Subject: 150019. - C&T Data (270885)

Hi Tino,

Please find attached the following files:
• Invoice
• Chain of Custody
• PDF Deliverable

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. **No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested.** You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Company Officer:

Name: Matthew D. Marks

Title: Vice President/Regional Manager

Signature: Matthew D Marks

Date: 10/30/15

Date	Time	Quantity (GAL)	Cummulative Quantity (GAL)
10/27/2015	2:50 PM	1700	1700
10/27/2015	3:40 PM	1700	3400
10/27/2015	4:20 PM	1700	5100
10/28/2015	8:45 AM	1700	6800
10/28/2015	9:35 AM	1700	8500
10/28/2015	10:25 AM	1700	10200
10/28/2015	11:50 AM	1700	11900
10/28/2015	1:30 PM	1700	13600
10/28/2015	1:50 PM	3700	17300
10/28/2015	2:00 PM	1700	19000
10/28/2015	3:20 PM	3700	22700
10/28/2015	3:30 PM	1700	24400
10/28/2015	4:20 PM	3700	28100
10/28/2015	4:50 PM	1700	29800
10/29/2015	7:40 AM	1700	31500
10/29/2015	7:50 AM	3700	35200
10/29/2015	11:30 AM	2000	37200
	TOTAL (GAL)	**37200**	

Note: volumetric dishcharge estimated by the number of loads discharged by a water truck. Magnus used a 2,000-GAL capacity water truck and 4,000-GAL capacity water truck throughout discharge of wasterwater to the DSRSD sanitary sewer. The total volume is a reasonable estimate compared to the capacity of the storage tanks. Magnus had (2) 21,000-GAL capacity frac tanks on-site which each was holding approximately 18,000-GAL/ea.

MAGNUS Pacific
A GREAT LAKES DREDGE & DOCK COMPANY

Magnus Pacific, LLC
6558 Lonetree Blvd.
Rocklin, CA 95765
magnuspacific.com

JOB
SHEET NO. OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE

10-27-2015

Trk count for Spoils

Trk	Time	Lic #
1	7:40AM	WP41891
2	7:50	WP01007
3	7:58	9E36787
4	8:05	9D67408
5	8:14	9D00092
6	8:24	WP35685 ~~9E65471~~
7	8:35	9E65471
8	9:05	9E79685

First Load

Trk	Time	Lic #
9	10:48	WP41890
10	10:57	WP01007
11	11:06	9E36787
12	11:35	9D67408
13	11:48	WP35685
14	11:59	9D00092
15	12:27	9E79685
16.	12:50	9E65471

Second Load

Water Removed 077 Site

Trk	Time	Approx gals	End Time
1	250pm	1700	3:30pm
2	340pm	1700	4:10pm
3	420pm	1700	4:50pm

MAGNUS Pacific
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Magnus Pacific, LLC
6558 Lonetree Blvd.
Rocklin, CA 95765
magnuspacific.com

JOB
SHEET NO. OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE

10-28-2015

Spoil Truck Count

Trk	Time	Lic#
1	740AM	WP41891
2	750AM	WP01007
3	11AM	WP41891

Trk	Time	Gals	Time	
1	8:45AM	1700	9:20AM	
2	935	1700	10AM	
3	10:25	1700	1050	
4	11:50	1700	1250pm	
5	130pm	1700	155	
6	150pm	3700	300	← Got trash pump Hooked up
7	2pm	1700	320	
8	320	3700	410	
9	330	1700	430	
10	420	3700	510	
11	450	1700	510	

MAGNUS Pacific
A GREAT LAKES DREDGE & DOCK COMPANY

Magnus Pacific, LLC
6558 Lonetree Blvd.
Rocklin, CA 95765
magnuspacific.com

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____

10-29-2015

Water Disposal

Trk	Time	Gallons	End Time
1	740 AM	1700	805 AM
2	750 AM	3700	8:40 AM
3	1130 AM	2000	12:40 AM

DUBLIN SAN RAMON SERVICES DISTRICT
PRETREATMENT PROGRAM
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT # 15018

Effective Date: October 12, 2015 Permit Fee: $740.00
Expiration Date: March 31, 2016

IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THE DUBLIN SAN RAMON SERVICES DISTRICT'S SEWAGE CODE (TITLE 5, CHAPTER 5.20), AND ALSO WITH ANY AND ALL APPLICABLE PROVISIONS OF FEDERAL AND/OR STATE LAWS OR REGULATIONS, PERMISSION IS HEREBY GRANTED TO:

MAGNUS PACIFIC LLC
6558 LONETREE BLVD.
ROCKLIN, CA 95765

SIC CLASSIFICATION: 1794 (Excavation Work)

FOR THE DISPOSAL OF WASTEWATER INTO THE SANITARY SEWER AT THE SITE ADDRESS OF:

7544 DUBLIN BLVD.
DUBLIN, CA AND 94568

DISCHARGER UNDERSTANDS ALL THE CONDITIONS OF THIS PERMIT AND AGREES TO COMPLY WITH THESE CONDITIONS AND THE DISTRICT'S SEWAGE CODE (TITLE 5, CHAPTER 5.20). FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT MAY BE GROUNDS FOR ADMINISTRATIVE ACTION, OR ENFORCEMENT PROCEEDINGS INCLUDING CIVIL OR CRIMINAL PENALTIES, INJUNCTIVE RELIEF, PERMIT REVOCATION AND SUMMARY ABATEMENTS.

IN ADDITION, THE DISCHARGER UNDERSTANDS THAT COMPLIANCE WITH THIS PERMIT DOES NOT RELIEVE THE DISCHARGER FROM COMPLIANCE WITH ANY AND ALL LOCAL, STATE AND FEDERAL PRETREATMENT STANDARDS AND REQUIREMENTS INCLUDING ANY SUCH STANDARDS OR REQUIREMENTS THAT MAY BECOME EFFECTIVE DURING THE TERM OF THIS PERMIT.

COMPANY OFFICER: _____ 10/12/15
TINO MAESTAS DATE
PROJECT DIRECTOR

DISTRICT REPRESENTATIVE:

_____ 10/12/15
DANIEL McINTYRE DATE
DISTRICT ENGINEER

REVISED 11/03/04

PART 1-GENERAL INFORMATION

MAILING ADDRESS
Street: 6558 Lonetree Blvd
City: Rocklin State: CA Zip: 95765

BUSINESS ADDRESS
Street: Same
City: State: Zip:

CORPORATE INFORMATION (If Applicable)
Corporate Address: 6558 Lonetree Blvd
City: Rocklin State: CA Zip: 95765
State of Incorporation: California
Corporate Agent: Matthew Marks
Agent Address: Same
City: State: Zip:
Agent Phone #: 916-462-6423

PROPERTY OWNER
Name: Dublin Apartment Properties LLC
Address: 2 Henry Adams Street, Suite 450
City: San Francisco State: CA Zip: 94103

Chief Executive Officer, General Partner, or Proprietor
Name: Louay Owaidat Title: President
Address: 6558 Lonetree Blvd
City: Rocklin State: CA Zip: 95765

PERSON TO SIGN THIS PERMIT
Name: Tino Maestas Title: Project Director
Phone #:(Day) 916-471-8210 (Night) Same

PERSON TO BE CONTACTED ABOUT THIS PERMIT
Name: Tino Maestas Title: Project Director
Phone #:(Day) 916-471-8210 (Night) Same

PERSON TO BE CONTACTED IN CASE OF EMERGENCY
Name: Tino Maestas Title: Project Director
Phone #:(Day) 916-471-8210 (Night) Same

TYPE OF BUSINESS OR OPERATION:

Specialty Geotechnical & Environmental General Contractor

DESCRIPTION OF APPLICABLE PROCESSES:

PROCESS DESCRIPTION	40 CFR PROCESS
Permeable Reactive Barrier Installation	N/A

PART 2 - FEES AND CHARGES

The Discharger identified on the title page of this permit is hereby given authorization to discharge industrial/commercial wastewater into the sanitary sewer provided that:

a. The Discharger makes payment of sewer service charges in association with the industrial/commercial wastewater discharge. Sewer service charges are based on the flow and strength of the wastewater. The strength of the wastewater is measured by the Biochemical Oxygen Demand (BOD) and the Total Suspended Solids (TSS) analyses.

b. The Discharger makes payment of the fees associated with the administration of this permit. Fees shall include, but not limited to, permit fees, inspection fees and sampling & analysis fees. Other fees may apply as a result of escalated enforcement action.

PART 3 - MONITORING REQUIREMENTS

I. DISCHARGE LIMITATIONS

a. **Only wastewater generated from the the installation of the Permeable Reactive Barrier is permitted. No domestic and/or industrial/commercial wastewaters are granted under this permit.**

b. The rate of discharge shall **not** exceed **100** gallons per minute (gpm).

c. The Discharger shall also comply with the prohibited discharges referenced in Title 5, Chapter 5.20 of the District Code.

d. The volume of wastewater discharged to the sanitary sewer shall be documented as required in Part 4, Section IV. of this permit.

The Discharger shall comply with all discharge limitations referenced in Appendix A of this permit as they apply to any facility discharge which is analyzed by approved methods and/or permit conditions.

The Discharger shall also comply with the prohibited discharges referenced in Title 5, Chapter 5.20 of the District Code.

II. REPRESENTATIVE SAMPLING

Effluent samples collected for analyses shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring point(s) specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water or substance. All equipment used for sampling must be routinely inspected and maintained to ensure their accuracy.

sampling must be routinely inspected and maintained to ensure their accuracy.

III. SAMPLING AND ANALYSIS

The Discharger shall comply with the following sampling and analysis requirements:

a. The facility's wastewater discharge shall be sampled, at a minimum, according to the required sampling frequency outlined in Appendix A. Unless otherwise specified, all sampling required by this permit will be performed by District staff.

b. All samples for the pollutants listed in Appendix A of this permit shall be taken at the designated sampling location(s) referenced in Appendix B of this permit.

c. All handling, preservation, and holding times of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR, Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit. In addition, all samples shall be delivered as soon as possible to the certified laboratory, but never shall the delivery of the samples to the laboratory exceed twenty-four (24) hours from the time the samples were obtained.

d. The laboratory selected to perform the analyses must be certified by the State of California Department of Health Services for wastewater analyses.

IV. VIOLATION RESAMPLING

If the results of any wastewater analysis performed by, or at the direction of, the Discharger indicates that a violation of this permit has occurred, the Discharger must:

a. Inform the District of the violation within 24 hours of becoming aware of the violation; and

b. Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within thirty (30) days from the date the Discharger first becomes informed of the violation.

Currently, the District performs all monitoring requirements on behalf of the Discharger, including resampling. However, in the event of District notification to the Discharger that the District will no longer perform the monitoring, the Discharger is responsible for the required sampling as listed in Appendix A, as well as violation resampling requirements.

PART 4 - REPORTING REQUIREMENTS

The Discharger shall notify the District **at least 48 hours prior** to the actual discharge.

I. MONITORING REPORTS

If the Discharger monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR, Part 136 or amendments thereto, or otherwise approved by the EPA, or as specified in this permit, the results of such monitoring shall be submitted within 45 days of the monitoring date to the District to determine compliance with all discharge limits as referenced in Appendix A. The monitoring results shall be submitted with the Signatory Requirement referenced in Part 5, Section XI. of this permit. Also, these monitoring results shall be included in the calculations to determine if and when the Discharger is in "Significant Noncompliance".

II. ACCIDENTAL DISCHARGE REPORT

The Discharger shall notify the District immediately, **by telephone**, upon becoming aware of the occurrence of any accidental discharge of substances prohibited by this permit or the District Code or of any **slug discharges** or spills that may enter the sanitary sewer. The Discharger shall call the following telephone number to notify the District of such discharges:

(925) 846-4565 (24 hours a day)

The telephone message must include the following information:

a. Business name, contact person, and telephone number.
b. Location and time of discharge.
c. Composition of the waste including hazardous properties.
d. Concentration and volume.
e. Immediate corrective actions taken.
f. Any other information deemed relevant.

Within five (5) days following the accidental discharge the Discharger shall submit to the District a detailed written report. The report shall provide the following information:

a. Description and cause of the upset, **slug load** or accidental discharge. The description shall include the location of the discharge, and the composition, concentration and volume of waste.

b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.

c. All steps taken, or to be taken, to reduce, eliminate, and/or prevent recurrence of such an upset, **slug load**, accidental discharge, or other conditions of noncompliance.

d. Any information deemed relevant.

It shall be the responsibility of the Discharger to notify the District of any unusual discharge whether or not the Discharger is aware of any possible impact to the District's facilities or operations.

The Discharger's notification to the District of accidental discharges does not relieve the Discharger of other reporting requirements in accordance with local, state, or federal laws.

III. BYPASS OF TREATMENT FACILITIES

a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury, or severe property damage or no feasible alternatives exist.

b) Notification of bypass:

(1) Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the District.

(2) Unanticipated bypass. The Discharger shall immediately notify, the District, **by telephone**, and submit written notice to the District within 5 days. This report shall specify:

(i) A description of the bypass, and its cause, including its duration;

(ii) Whether the bypass has been corrected; and

(iii) The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

c) The Discharger may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation. These bypasses are not subject to paragraphs (a) and (b) of this section.

IV. DISCHARGE REPORT

The Discharger shall submit a discharge report to the District documenting certain activities, which occurred during that month. The monthly report shall be due at the District Office within thirty (30) days after the month's end and shall include the following:

a. A log documenting the volume of treated wastewater discharged to the sanitary sewer during the reporting period.

b. The submission, by an authorized representative, of the Signatory Requirement referenced in Part 5, Section XI. of this permit.

All reports required by this permit shall be submitted, along with the signatory requirement reference in Part 5, Section XI. of this permit to Dublin San Ramon Services District at the following address:

Dublin San Ramon Services District, RWTF
7399 Johnson Drive
Pleasanton, CA 94588
ATTENTION: Environmental Compliance Section

PART 5 - STANDARD CONDITIONS

I. INSPECTION AND ENTRY

The Discharger shall grant the District staff or authorized representatives entrance to the permitted facility for the purposes of inspection and sampling at all reasonable times. The inspection shall include the examination of all files pertaining to the requirements contained within this permit and the District's Sewerage Code and/or the examination of all sources of industrial wastewater discharge.

In addition, the Discharger shall inform District staff of the facility's safety procedures and requirements including the use of personal protective equipment.

II. DILUTION

The Discharger shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained within this permit, any National Pretreatment Standards, or any other wastewater effluent limitation developed by the District or State.

III. FACILITY MODIFICATION/CHANGES

The Discharger shall notify the District at least 30 days prior to any facility expansion, production increase, or process modification which results in new or substantially increased wastewater discharges or a change in the nature of the wastewater discharge.

Furthermore, the Discharger **shall obtain prior approval from the District** before discharging any new sources of wastewater, wastewater discharges that have substantially increased in volume, and/or any source of wastewater that has changed in nature.

IV. ANTICIPATED NONCOMPLIANCE

The Discharger shall give notice to the District at least 30 days prior to any planned changes in the permitted facility or activity, which may result in noncompliance with the requirements in this permit.

V. HAZARDOUS AND NON-SEWERABLE WASTES

Solids, sludge, filter backwash, non-sewerable wastewater, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with all applicable state, federal and local laws. Spent chemical solutions, and any toxic or hazardous wastes shall be either disposed of at an authorized site by a properly licensed hazardous waste hauler, or recycled by a properly licensed recycler. No discharge of untreated spent chemical solutions and/or hazardous wastes to the public sewer is permitted.

VI. SPILL PROTECTION

The Discharger shall provide adequate protection including, but not limited to, secondary containment for all hazardous chemicals, hazardous waste and non-sewerable wastes which are stored in areas where potential spills could reach the facility's floor drains.

VII. OPERATIONS AND MAINTENANCE

The Discharger shall properly operate and maintain all pretreatment facilities that were installed or used to achieve compliance with this permit.

VIII. RECORDS/LOGS

The Discharger shall maintain logs and records of all data pertaining to the operations and maintenance activities implemented for the purpose of achieving compliance with this permit. Such documentation shall include, but not limited to, records/logs for calibrations, spent chemical bath solutions, flow data, water usage data, chemical

dose rates, routine maintenance of equipment, routine treatment process checks, analyses and process changes, as they pertain to the process wastewaters discharged from the facility.

IX. RECORDS RETENTION

The Discharger shall retain all records pertaining to the requirements set forth in this permit including, but not limited to, effluent sampling and analysis data, reports, calibration and maintenance records, logs, all original strip chart recordings for continuous monitoring instruments and receipts for off-haul of hazardous and non-sewerable wastes for a period of three (3) years.

These records shall be made available to officials of the EPA, State and the District or their authorized representatives.

In addition, all records pertaining to any investigation or enforcement action brought by the EPA, State or the District shall be retained for a minimum of three (3) years from the date of the conclusion of the investigation or enforcement action.

X. PERMIT MODIFICATIONS

The District reserves the right to revise this permit if deemed necessary to comply with objectives presented in the District Code. No revision of the limitations or requirements hereunder shall subject the District to civil liability or penalty for interference with a vested right of the Discharger. This permit may be modified only by the District.

XI. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the District must contain the following certification statement followed by the signature and title of the officer representing the Discharger and the date the document was signed:

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

XII. CONFIDENTIALITY

The Discharger may request that documents submitted to the District, which may disclose restricted information or restricted processes, to be kept confidential and **not** available to the public. However, these documents shall be available upon request to other governmental agencies in affiliation with the EPA Pretreatment Program and/or the National Pollutant Discharge Elimination System (NPDES). In addition, these documents shall be made available in enforcement procedures by the District, Federal and/or the State or state agency implicating the Discharger.

Pretreatment records such as reports, questionnaires/permit applications, permits, inspection reports, violation notices, enforcement actions, wastewater flow and effluent data shall not be considered confidential.

XIII. TRANSFERABILITY

This Industrial Wastewater Discharge Permit is non-transferable and valid only to the industry and owner to whom it is originally issued. Transfer of ownership, changes to any industrial processes, or a significant change of wastewater quality shall void the permit.

XIV. ENFORCEMENT

Section 5.20.520 (B) of the District Code provides that any Discharger who violates a permit condition is subject to civil penalties not to exceed Twenty Five Thousand Dollars ($25,000) for each day of such violations. Section 5.20.560 (B) of the District Code provides that any person who willfully or negligently violates permit conditions is subject to criminal penalties of a fine not to exceed One Thousand Dollars ($1,000) per day of violation, or by imprisonment in the county jail not to exceed six (6) months, or both. The Discharger may also be subject to sanctions under State and/or Federal Law.

In addition to civil and criminal liability, the Discharger violating any of the provisions of this permit or Title 5 of the District Code or causing damage to or otherwise inhibiting the District's wastewater disposal system shall be liable to the District for any expense, loss, or damage caused by such violation or discharge. The District shall bill the Discharger for the costs incurred by the District for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of Section 5.20.520 (E) of the District Code.

XV. DUTY TO REAPPLY

If the activities regulated by this permit are planned, or anticipated, to be continued after the expiration date of this permit, the Discharger must submit a written request for the issuance of a new permit at least thirty (30) days prior to the expiration date of this permit.

XVI. CONTINUATION OF EXPIRED PERMITS

An expired permit shall continue to be effective and enforceable until a new permit has been reissued if:

a. The Discharger has submitted a completed permit application **at least 30 days** prior to the expiration of the Discharger's current permit.

b. The failure to reissue the new permit, prior to the expiration of the previous permit, is not due to any act or failure to act on the part of the Discharger.

XVII. ANNUAL PUBLICATION

As required by the Federal Pretreatment Regulations (40 CFR 403.8(f)(2)(viii)) the District shall comply with the public participation requirements of 40 CFR Part 25. Subsequently, any industrial/commercial user determined to be in "Significant Noncompliance" with applicable pretreatment requirements at any time during the last twelve (12) months shall be published in the largest newspaper circulated in the District's service area. Appendix C defines the criteria used to determine "Significant Noncompliance".

APPENDIX A

DISCHARGE LIMITATIONS

APPENDIX A

MAGNUS PACIFIC LLC PERMIT# 15018

The table below lists the maximum concentrations allowed to be discharged into the sanitary sewer per the District code and federal regulations. Local limits apply as instantaneous maximum values for grab samples, and as daily maximum values for composite samples. Currently, the District performs all monitoring requirements on behalf of the Discharger. However, in the event of District notification to the Discharger that the District will no longer perform the monitoring, the Discharger is responsible for the required sampling frequency as listed below, as well as violation resampling requirements as specified in Part 3, Section 4 of this permit.

The last column indicates the required sampling frequency. "--" indicates that these pollutants are not sampled on a routine basis. However, this **does not** relieve the Discharger from also complying with these limits. The District reserves the right to sample for any local limit pollutant.

POLLUTANT	LOCAL LIMIT mg/l	FEDERAL LIMIT		SAMPLE TYPE	REQUIRED SAMPLING FREQUENCY
		DAILY MAX mg/l	AVG mg/l		
ARSENIC	0.50	NA	NA	G	--
CADMIUM	1.00	NA	NA	G	--
CHROMIUM	1.00	NA	NA	G	--
COPPER	1.00	NA	NA	G	--
LEAD	2.00	NA	NA	G	--
MERCURY	0.010	NA	NA	G	--
NICKEL	1.50	NA	NA	G	--
SELENIUM	1.30	NA	NA	G	--
SILVER	1.50	NA	NA	G	--
ZINC	4.00	NA	NA	G	--
CYANIDE	0.50	NA	NA	G	--
PHENOLS	20.0	NA	NA	G	--
T.I.C.H. (608)	0.02	NA	NA	G	--
PCBs (608)	0.01	NA	NA	G	--
* T.T.O. (624 ONLY)	5.00*	NA*	NA*	G & C	PER BATCH
PAH (610)	6.50	NA	NA	C	--
OIL/GREASE (HYDROCARBON) (ANIMAL/VEG.)	150 200	NA	NA	G	--
TPH-GAS & TPH-DIESEL	15.0	NA	NA	G & C	--
EPA 602 (BTEX)	1.00	NA	NA	G	--
TOTAL DISSOLVED SOLIDS (TDS)	1000	NA	NA	C	--
RADIOACTIVITY	NA	FS	FS	C	--
TOTAL SULFIDES	2.0	NA	NA	C	--
B.O.D.	NA	NA	NA	C	--
C.O.D.	NA	NA	NA	C	--
T.S.S.	NA	NA	NA	C	--
pH	MIN. 6.0** MAX. 11.0**	NA NA	NA NA	G	PER BATCH

NA = NOT APPLICABLE
G = GRAB
C = COMPOSITE
PAH = POLYNUCLEAR AROMATIC HYDROCARBONS
TPH = TOTAL PETROLEUM HYDROCARBONS

* T.T.O. = TOTAL TOXIC ORGANICS PER DISTRICT CODE 5 APPENDIX
** = pH UNITS
AVG = MONTHLY AVERAGE
T.I.C.H. = TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS
FS= REFER TO FEDERAL OR STATE REGS. (10CFR 20 0R CCR TITLE 17)

APPENDIX B

DISCHARGE LOCATION

APPENDIX B

MAGNUS PACIFIC LLC PERMIT# 15018

The sampling location (IWD-001) shall be the contents of the holding tank containing the wastewater generated from the installation of the Permeable Reactive Barrier.

APPENDIX C

SIGNIFICANT NONCOMPLIANCE

SIGNIFICANT NONCOMPLIANCE

Instances of Significant Noncompliance (SNC) are industrial user violations which meet one or more of the following criteria:

1. Violations of the wastewater discharge limits.

   a. Chronic violations. Sixty-six percent or more of the measurements which exceed, by any magnitude, the daily maximum limit or the average limit during a 6-month period for the same pollutant parameter.

   b. Technical Review Criteria (TRC) violations. Thirty-three percent or more of the measurements, for the same pollutant, which exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC, during a 6-month period.

   There are two groups or TRC's:

Group I for conventional pollutants (BOD, TSS, fats, oil and grease)	TRC	=	1.4
Group II for all other pollutant, except pH	TRC	=	1.2

   c. Any other violation(s) of an effluent limit (average or daily maximum) that the District believes has caused, alone or in combination with other discharges, interference (e.g., slug loads) or pass-through; or endangered the health of the sewage treatment personnel or the public.

   d. Any discharge of a pollutant that has caused imminent endangerment to human health/welfare or to the environment and has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge.

2. Failure to meet, within 90 days after the compliance date, compliance schedule milestones contained in a permit or enforcement order for starting construction, completing construction, or attaining final compliance.

3. Failure to provide reports for compliance schedules, self-monitoring data, or categorical standards (baseline monitoring reports, 90-day compliance reports, and periodic reports) within 30 days from the due date.

4. Failure to accurately report noncompliance.

5. Any other violation or group of violations that the District considers to be significant.

ATTACHMENT J

Magnetic Test Procedure, ZVI/Sand Batch Logs & Magnetic Separation Test Data

MAGNETIC SEPARATION TESTING PROCEDURE

PART 1 – GENERAL

1.01 SUMMARY

A. This section includes a protocol for magnetic separation testing of granular zero valent iron and sand mixtures. The magnetic separation test allows determination of the weights of granular zero valent iron and sand in the mixture.

1.02 DEFINITIONS

The terms used in this Section are defined as follows:

A. Permeable Reactive Barrier

A permeable reactive barrier is a permeable reactive substance constructed in the subsurface orthogonal to the groundwater flow direction with the purpose of treating contaminants in groundwater as they pass through the barrier.

B. Granular ZVI (Granular ZVI)

Granular ZVI is a reactive material that is mixed with sand and placed in the permeable reactive barrier. Granular ZVI chemically degrades certain groundwater contaminants when they contact the granular ZVI.

PART 2 – MATERIALS

2.01 GRANULAR ZVI AND SAND MIXTURE SAMPLE

A. A 250 to 1,000 gram sample (0.5 to 2 lbs) of the granular ZVI and sand mixture should be obtained and placed in sample containers.

2.02 SUPPLIES

A. Sample containers

B. Balance/scale (battery powered scale if electrical outlet is not available, must be able to measure up to approximately 1,000 grams)

C. Hot plate, if electrical outlet available (or propane camping stove)

D. Frying pan (8 in or 10 in)

E. Large metal spoon

F. Disposable aluminum cookie sheet

G. Magnet (heavy duty from hardware store)

H. Ziplock bags

I. Sharpie pen(s)

J. Worksheets/log book

2.03 EXECUTION

A. Weigh the empty containers that the samples will be collected in.

B. Samples of the iron-sand mixture are collected from the discharge of the mixing device (e.g., shoot of a concrete mixer) and/or from the backfilled material in the excavation. The frequency and location of samples is dependent on the objectives of each project.

C. Weigh the sample (empty container and sample) and record the weight. Determine the net weight of the sample by subtracting the empty sample container weight. A suitable weighing device (balance or scale) must be used.

D. Dry the sample. If cemented together during drying, lightly breakup. Weigh and record the net dry weight.

E. Spread the sample out in a suitable container (e.g., disposable aluminum cookie sheet, etc.).

F. Cover the magnet in a material (such as a plastic bag) to allow the magnetic material to be easily separated from the magnet.

G. Pass the magnet over the sample to remove the magnetic (granular ZVI) fraction. Care must be taken to minimize the trapping of sand particles within the granular ZVI grains. The magnetic fraction is removed from the magnet and placed in a container.

H. Continue passing the magnet over the material until no more magnetic material is removed. Mixing of the non-magnetic fraction between passes may be required to obtain all the magnetic particles.

I. The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H should at least three more times to ensure the magnetic and non-magnetic fractions are completely separated. After each separation, the non-magnetic fraction should be added to the non-magnetic fraction from the previous separation.

J. Weight the magnetic and non-magnetic fractions and record weights. The total net weight of the magnetic and non-magnetic fractions should be the same as the weight prior to separation.

K. The dry iron net weight percent is determined by:

$$\text{Dry Iron Net Weight Percent} = \frac{\text{Net Weight of Magnetic Material}}{\text{Total Net Weight of Dry Sample}} \times 100$$

L. Estimated time to complete the magnetic separation test is about 15 to 25 minutes per sample, depending on the moisture of the sample.

END OF SECTION

ZVI PRB PROJECT
DUBLIN APARTMENTS
7544 DUBLIN BLVD, DUBLIN, CA

MAGNUS Pacific

ZVI Batch Mixing Log

Date 10-13-15 Job No. Technician Harris

Batch No.	Time	Truck No.	% Iron by Weight	Pass?	# of Iron Bags Used	# of Sand Bags Used
01		70			12020	7418
02		70			12020	7403
03	4:00 PM	70			12020	7403
04		70			12020	
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/13/15 Job No. Batch #1 Technician Zach Colburn

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	837.3	grams
	Bulk weight of sample A - C	467.3	grams
D	Net dry weight of sample	467.3	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	356.8	grams
	Weight of sand fraction	109.7	grams
K	Dry Iron Net Weight % J ÷ D x 100%	76.35	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/13/2015 Job No. Batch #2 Technician Zach Colburn

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	881.2	grams
	Bulk weight of sample A - C	500.3	grams
D	Net dry weight of sample	500.3	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	306.7	grams
	Weight of sand fraction	192.7	grams
K	Dry Iron Net Weight % J ÷ D x 100%	61.30	%

= 499.4

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/13/2015 Job No. Batch #3 Test 1 Technician Zach Colburn

A	Weight of empty container	369.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	880	grams
	Bulk weight of sample A - C	510.1	grams
D	Net dry weight of sample	510.1	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	299.9	grams
	Weight of sand fraction	209.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	58.2	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/13/2015 Job No. Batch #3 Test 2 Technician

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	831.7	grams
	Bulk weight of sample A - C	450.8	grams
D	Net dry weight of sample	450.8	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	285.0	grams = 450
	Weight of sand fraction	165.0	grams
K	Dry Iron Net Weight % J ÷ D x 100%	63.2	%

ZVI PRB PROJECT
DUBLIN APARTMENTS
7544 DUBLIN BLVD, DUBLIN, CA

MAGNUS Pacific

ZVI Batch Mixing Log

Date 10-14-15 Job No. Technician Haven

Batch No.	Time	Truck No.	% Iron by Weight	Pass?	# of Iron Bags Used	# of Sand Bags Used
01					12016	7403
02	8:59				12016	7411
03					12016	7410
04	11:30				12016	7388
05	12:39				12016	7413
06	1:18				12016	7388
07	1:56				12016	7449
08	3:09				12016	7398
09	3:42				12016	7399
10	4:19				12016	7393
11	5:24				12000	7399
12						
13						
14	Mixed 2 1/2 Batches of Guar					
15		2.5 x 6 =	15 Bags Guar			
16		7.5 min. x .77 gal =			5.8 gal Buson	
17		1 1/2 sack	soda	ash		
18		12500 gallons	Water			
19						
20						

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-2015 Job No. Trench @ 1050 Technician Zach Colburn

A	Weight of empty container	558.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	1318.6	grams
	Bulk weight of sample A - C	759.7	grams wet
D	Net dry weight of sample	579.9	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	402.6	grams
	Weight of sand fraction	177.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	69.42	%

MAGNUS Pacific

Magnetic Separation Testing Form

Truck # 1.

Date 10-14-2015 Job No. Batch #1 Technician Zach Colburn

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	821.9	grams
	Bulk weight of sample A - C	441.0	grams
D	Net dry weight of sample	441.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	295.0	grams
	Weight of sand fraction	145.6	grams
		= 440.6	
K	Dry Iron Net Weight % J ÷ D x 100%	66.89	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-2015 Job No. Batch #2 Truck 2 Technician Zach Colburn

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	870.0	grams
	Bulk weight of sample A - C	500.0	grams
D	Net dry weight of sample	500.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	254.6	grams 499.7
	Weight of sand fraction	245.1	grams
K	Dry Iron Net Weight % J ÷ D x 100%	50.7	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/14/2015 Job No. Batch #2 Truck #2 Technician

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	811.9	grams
	Bulk weight of sample A - C	430.9	grams
D	Net dry weight of sample	430.9	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	269.7	grams ≠ 430.6
	Weight of sand fraction	160.9	grams
K	Dry Iron Net Weight % J ÷ D x 100%	62.58	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-2015 Job No. Batch #3 Truck #1 Test 1 Technician

A	Weight of empty container	369.7	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	905.8	grams
	Bulk weight of sample A - C	536.1	grams
D	Net dry weight of sample	536.1	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	306.0	grams
	Weight of sand fraction	229.7	grams
K	Dry Iron Net Weight % J ÷ D x 100%	57.0	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/14/2015 Job No. Truck 1 Batch #3 Test 2 Technician

A	Weight of empty container	381.1	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	829	grams
	Bulk weight of sample A - C	447.9	grams
D	Net dry weight of sample	447.9	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	274.3	grams = 447.2
	Weight of sand fraction	172.9	grams
K	Dry Iron Net Weight % J ÷ D x 100%	61.24	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-15 Job No. Batch #4 Truck 2 Technician Zach Calburn

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	1021.4	grams
	Bulk weight of sample A - C	640.4	grams
D	Net dry weight of sample	640.4	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	348.2	grams
	Weight of sand fraction	291.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	54.3	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/14/2015 Job No. Batch #4 Truck 2 Test 2 Technician Zach Colburn

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	812.5	grams
	Bulk weight of sample A - C	431.5	grams
D	Net dry weight of sample		grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	244.2	grams
	Weight of sand fraction	186.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	56.5	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-2015 Job No. Batch 4 Test #3 Truck #2 Technician Zach Colburn

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	837	grams
	Bulk weight of sample A - C	456.0	grams
D	Net dry weight of sample	456.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	268.1	grams
	Weight of sand fraction	186.8	grams
K	Dry Iron Net Weight % J ÷ D x 100%	58.7	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-14-2015 Job No. Truck 2 Batch 4 Test 4 Technician Zach Colburn

A	Weight of empty container	370.1	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	954.9	grams
	Bulk weight of sample A - C	584.8	grams
D	Net dry weight of sample	584.8	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	440.6	grams
	Weight of sand fraction	143.9	grams
K	Dry Iron Net Weight % J ÷ D x 100%	75.34	%

MAGNUS Pacific

Magnetic Separation Testing Form

Truck # 1

Date 10-14-2015 Job No. Batch #5 Technician Zach Colburn

A	Weight of empty container	369.7	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	932	grams
	Bulk weight of sample A - C	562.3	grams
D	Net dry weight of sample	562.3	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	361.3	grams = 561.9
	Weight of sand fraction	200.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	64.2	%

MAGNUS Pacific

Magnetic Separation Testing Form

Truck #2

Date 10-14-2015 Job No. Batch #6 Technician Zach Colburn

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	922.4	grams
	Bulk weight of sample A - C	541.5	grams
D	Net dry weight of sample	541.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	340.7	grams
	Weight of sand fraction	200.2	grams
K	Dry Iron Net Weight % J ÷ D x 100%	62.91	%

540.9

ZVI PRB PROJECT
DUBLIN APARTMENTS
7544 DUBLIN BLVD, DUBLIN, CA

10/15/15

MAGNUS Pacific

ZVI Batch Mixing Log

Date	Harris	Job No.		Technician	Harris

Batch No.	Time	Truck No.	% Iron by Weight	Pass?	# of Iron Bags Used	# of Sand Bags Used
01	8:27	70			12016	7393
02	9:10				12016	7429
03	10:00				12016	7398
04	10:49				11766	7232
05	12:00				12016	7302
06	1:35				12016	7434
07					12016	7348
08	2:57				12016	7398
09					12016	7398
10					12016	7398
11	4:47				12016	7398
12	5:14				12016	7403
13						
14						
15						
16						
17						
18						
19						
20						

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. In trench 10-85 Technician Zach Colburn

A	Weight of empty container	559.3	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	1275.5	grams
	Bulk weight of sample A - C	716.2	grams
D	Net dry weight of sample	540.4	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	391.9	grams
	Weight of sand fraction	148.1	grams
K	Dry Iron Net Weight % J ÷ D x 100%	72.5	%

= 540

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. Batch#1 Truck 1 Technician Zach Colburn

A	Weight of empty container	350.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	929.6	grams
	Bulk weight of sample A - C	548.7	grams
D	Net dry weight of sample		grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	351.5	grams
	Weight of sand fraction	196.8	grams
		= 548.3	
K	Dry Iron Net Weight % J ÷ D x 100%	64.0	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. Batch # 2 Truck #2 Technician

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	981.0	grams
	Bulk weight of sample A - C	600.0	grams
D	Net dry weight of sample	600.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	435.3	grams
	Weight of sand fraction	164.3	grams
		= 599.6	
K	Dry Iron Net Weight % J ÷ D x 100%	72.55	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/15/2015 Job No. Batch # 3 Truck #1 Technician Trevor Newell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	965.6	grams
	Bulk weight of sample A - C	584.6	grams
D	Net dry weight of sample	584.6	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	347.7	grams
	Weight of sand fraction	235.1	grams
K	Dry Iron Net Weight % J ÷ D x 100%	59.4	%

MAGNUS Pacific

Magnetic Separation Testing Form

Test #2

Date 10-15-2015 Job No. Batch #3 Truck #1 Technician Zach Colbert

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	875.6	grams
	Bulk weight of sample A - C	494.6	grams
D	Net dry weight of sample	494.6	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	301.3	grams = 494
	Weight of sand fraction	192.7	grams
K	Dry Iron Net Weight % J ÷ D x 100%	60.9	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 1/-15-2015 Job No. Batch#4 Truck #2 Technician Zach Colburn

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	1004	grams
	Bulk weight of sample A - C	623.0	grams
D	Net dry weight of sample	623.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	400.1	grams = 622.7
	Weight of sand fraction	222.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	64.2	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. Batch#5 Truck 1 Technician Zach Collier

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	826.8	grams
	Bulk weight of sample A - C	445.8	grams
D	Net dry weight of sample	445.8	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	318.3	grams
	Weight of sand fraction	127.3	grams
K	Dry Iron Net Weight % J ÷ D x 100%	71.3	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. Batch #6 Truck #2 Technician Trevor Newell

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	792.0	grams
	Bulk weight of sample A - C	422.0	grams
D	Net dry weight of sample	422.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	255.7	grams
		= 421.3	
	Weight of sand fraction	165.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	60.5	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-15-2015 Job No. Batch #12 Truck #2 Technician Trevor Newell

A	Weight of empty container	369.8	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	869.2	grams
	Bulk weight of sample A - C	499.4	grams
D	Net dry weight of sample	499.4	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	317.8	grams
		= 497.4	
	Weight of sand fraction	179.6	grams
K	Dry Iron Net Weight % J ÷ D x 100%	63.6	%

ZVI PRB PROJECT
DUBLIN APARTMENTS
7544 DUBLIN BLVD, DUBLIN, CA

MAGNUS Pacific

ZVI Batch Mixing Log

Date	10-16-15	Job No.		Technician	Hawks

Batch No.	Time	Truck No.	% Iron by Weight	Pass?	# of Iron Bags Used	# of Sand Bags Used
01	8:00	1			12016	7403
02	9:30	2			12016	7399
03	11:15	1			12016	7403
04	12:53				12016	7399
05					12016	7394
06					12016	7403
07					12016	7403
08	4:30				12016	7403
09	5:00				12016	7399
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/16/15 Job No. Batch #1 Truck #1 Technician Trevor Newell

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	891.7	grams
	Bulk weight of sample A - C	521.7	grams
D	Net dry weight of sample	521.7	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	320.3	grams = 520.8
	Weight of sand fraction	200.5	grams
K	Dry Iron Net Weight % J ÷ D x 100%	61.4	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #2 Truck #2 Technician Trevor Newell

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	800.1	grams
	Bulk weight of sample A - C	430.1	grams
D	Net dry weight of sample	430.1	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	287.6	grams
	Weight of sand fraction	142.1	grams
K	Dry Iron Net Weight % J ÷ D x 100%	66.9	%

287.6 + 142.1 = 429.79

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/16/15 Job No. Batch #3 Truck #1 Technician Trevor Newell

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	790.8	grams
	Bulk weight of sample A - C	409.9	grams
D	Net dry weight of sample	409.4	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	253.9	grams
	Weight of sand fraction	155.3	grams
K	Dry Iron Net Weight % J ÷ D x 100%	61.9	%

= 409.2

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #4 Truck #2 Technician Trevor Nyquell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	819.6	grams
	Bulk weight of sample A - C	438.6	grams
D	Net dry weight of sample	438.6	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	274	grams
	Weight of sand fraction	164.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	62.5	%

= 438.4 g

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #5 Truck # 1 Technician Trevor Newell

A	Weight of empty container	370.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample		grams
	Bulk weight of sample A - C	518.0	grams
D	Net dry weight of sample	518.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	309.3	grams
	Weight of sand fraction		grams
K	Dry Iron Net Weight % J ÷ D x 100%		%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #5 Truck #1 Test #2 Technician Trevor Newell

A	Weight of empty container	369.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	864.9	grams
	Bulk weight of sample A - C	495.0	grams
D	Net dry weight of sample	495.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	299.0	grams
		= 494.4	
	Weight of sand fraction	195.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	60.4	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #6 Truck #2 Test #2 Technician Trevor Newell

A	Weight of empty container	369.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	906.9	grams
	Bulk weight of sample A - C	537.0	grams
D	Net dry weight of sample	537.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	368.1	grams
	Weight of sand fraction	168.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	68.5	%

536.5 g

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. Batch #6 Truck #2 Test #1 Technician Trevor Newell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	893.5	grams
	Bulk weight of sample A - C	512.5	grams
D	Net dry weight of sample	512.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	299.6	grams
	Weight of sand fraction		grams
K	Dry Iron Net Weight % J ÷ D x 100%	58.6	%

MAGNUS Pacific

Magnetic Separation Testing Form

10:35 AM

Date 10/16/15 Job No. Trench Sample Technician Trevor Newell

A	Weight of empty container	369.8	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	904.3	grams
	Bulk weight of sample A - C	534.5	grams
D	Net dry weight of sample	534.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	364.0	grams
	Weight of sand fraction	170.1	grams
		= 534.1	
K	Dry Iron Net Weight % J ÷ D x 100%	68.1	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-16-15 Job No. 1425 Trench sample Technician Trevor Newell

A	Weight of empty container	369.9	grams

Wet Pan: 562.4
Wet Net: 775.0

B Sample the iron-sand mixture from the discharge of the mixing truck or backfill

C	Weight of container + sample	936.6	grams
	Bulk weight of sample A - C	566.7	grams
D	Net dry weight of sample	566.7	grams

E Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)

F Cover the magnet in a plastic bag

G Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container

H Continue passing the magnet over the material until no more magnetic material is removed

I The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.

J	Weight of iron fraction	421.4	grams
	Weight of sand fraction	145.2	grams
K	Dry Iron Net Weight % J ÷ D x 100%	74.4	%

566.6

MAGNUS Pacific

Magnetic Separation Testing Form

1555

Date 10-16-15 Job No. Trench Sample Technician Trevor Newell

A	Weight of empty container	369.8	grams

wet pan: 561.7
wet Net: ~~760~~ 760.8

B Sample the iron-sand mixture from the discharge of the mixing truck or backfill

C	Weight of container + sample	862.2	grams
	Bulk weight of sample A - C	492.4	grams
D	Net dry weight of sample	492.4	grams

E Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)

F Cover the magnet in a plastic bag

G Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container

H Continue passing the magnet over the material until no more magnetic material is removed

I The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.

J	Weight of iron fraction	326.5	grams
	Weight of sand fraction	165.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	66.3	%

= 491.9 Total

Technician - Harris

Dublin Sat. Oct. 17, 2015

PRB Backfill Batching

Batch No	Time	Iron (lbs)	Sand (lbs)
1		12016	7425
2		12016	7409
3		12016	7404
4		12016	7399
5		12016	7398
6		12016	7429
7		12016	7404
8		12016	7398
9		12016	7398
10		3004	1020

MAGNUS Pacific

Magnetic Separation Testing Form

1045

Date 10/17/15 Job No. In trench sample Technician Trevor Newell

A	Weight of empty container	381.0	grams

Pan wt wet: 559.4

B Sample the iron-sand mixture from the discharge of the mixing truck or backfill

C	Weight of container + sample	946.4	grams
	Bulk weight of sample A - C	565.4	grams
D	Net dry weight of sample	565.4	grams

E Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)

F Cover the magnet in a plastic bag

G Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container

H Continue passing the magnet over the material until no more magnetic material is removed

I The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.

J	Weight of iron fraction	410	grams
	Weight of sand fraction	155.4	grams

= 565.4

K	Dry Iron Net Weight % J ÷ D x 100%	72.5	%

MAGNUS Pacific

Magnetic Separation Testing Form

1545

Date 10/17/15 Job No. Trench Sample Technician Trevor Newell

A	Weight of empty container	370.1 grams	Pan 559.6 wet net 765.0
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	977.1 grams	
	Bulk weight of sample A - C	607 grams	
D	Net dry weight of sample	607 grams	
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	457.1 grams	
	Weight of sand fraction	146.9 grams	
K	Dry Iron Net Weight % J ÷ D x 100%	75.4 %	

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-17-15 Job No. Batch#1 Truck#1 Technician Trevor Newell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	888	grams
	Bulk weight of sample A - C	507.0	grams
D	Net dry weight of sample	507.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	339.4	grams
		= 506.3 g	
	Weight of sand fraction	166.9	grams
K	Dry Iron Net Weight % J ÷ D x 100%	66.9	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/17/15 Job No. Batch #2 Truck #1 Technician Trevor Norvell

A	Weight of empty container	381.1	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	901.2	grams
	Bulk weight of sample A - C	520.1	grams
D	Net dry weight of sample	520.1	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	322.9	grams
	Weight of sand fraction	196.9	grams = 519.8 g
K	Dry Iron Net Weight % J ÷ D x 100%	62.1	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10-17-15 Job No. Batch # 3 Truck #2 Technician Trevor Newell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	917.5	grams
	Bulk weight of sample A - C	536.5	grams
D	Net dry weight of sample	536.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	360.5	grams
	Weight of sand fraction	175.0	grams
		= 535.5	
K	Dry Iron Net Weight % J ÷ D x 100%	67.2	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/17/15 Job No. Batch # 4 Truck #1 Technician Trevor Newell

A	Weight of empty container	380.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	900.9	grams
	Bulk weight of sample A - C	520.0	grams
D	Net dry weight of sample	520.0	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	305.7	grams
	Weight of sand fraction	214.1	grams
K	Dry Iron Net Weight % J ÷ D x 100%	58.8	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/17/15 Job No. Batch #4 Truck #1 Test #2 Technician Trevor Newell

A	Weight of empty container	369.9	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	935.8	grams
	Bulk weight of sample A - C	565.9	grams
D	Net dry weight of sample	569.9	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	393.0	grams
	Weight of sand fraction	172.4	grams
K	Dry Iron Net Weight % J ÷ D x 100%	69.4	%

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/17/15 Job No. Batch #5 Truck #2 Technician Trevor Newell

A	Weight of empty container	364.8	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	941.3	grams
	Bulk weight of sample A - C	571.5	grams
D	Net dry weight of sample	571.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	388.6	grams
	Weight of sand fraction	182.2	grams
K	Dry Iron Net Weight % J ÷ D x 100%	67.9	%

570.8

MAGNUS Pacific

Magnetic Separation Testing Form

Date 10/17/15 Job No. Batch #6 Truck #1 Technician Trevor Newell

A	Weight of empty container	381.0	grams
B	Sample the iron-sand mixture from the discharge of the mixing truck or backfill		
C	Weight of container + sample	927.5	grams
	Bulk weight of sample A - C	546.5	grams
D	Net dry weight of sample	546.5	grams
E	Spread the sampleout in a suitable container (e.g. disposable aluminum cookie sheet)		
F	Cover the magnet in a plastic bag		
G	Pass the magnet over the sample to remove the magetic (granular ZVI) fraction. Place magnetic fraction in new container		
H	Continue passing the magnet over the material until no more magnetic material is removed		
I	The magnetic fraction may contain some non-magnetic (sand) particles. Repeat Steps E to H at least 3 more times.		
J	Weight of iron fraction	384.2	grams
	Weight of sand fraction	161.8	grams
		= 546.0	
K	Dry Iron Net Weight % J ÷ D x 100%	70.3	%

ATTACHMENT K

CDF Unconfined Compressive Strength Test Results

APPLIED MATERIALS & ENGINEERING, INC.
980 41st Street
Oakland, CA 94608
Tel: (510) 420-8190
FAX: (510) 420-8186
e-mail: info@appmateng.com

COMPRESSION TEST REPORT

Project Number:	115822C	Report Date:	11/04/15
Project Name:	14-723	Type of Sample:	CLSM Cylinder D4832
	7544 Dublin Boulevard	Size of Sample:	6"x12" Cylinder
	Dublin, CA	Specimens Made By:	Client
		Date Sampled:	10/19/15
Client Name:	Rockridge Geotechnical	Time Sampled:	12:37 PM
		Date Received:	10/27/15

Field Test Conditions and Results

Supplier:	Ready Mix Company	Slump, inch:	3	ASTM C143
Mix Number:	..	Air Temperature, ^{O}F:	74	
Ticket Number:	..	Mix Temperature, ^{O}F:	73	ASTM C1064
Truck Number:	6th load	Air Content, %:	..	ASTM C231
Location in Structure:	Eastern remediation barrier/slurry wall	Fresh Unit Weight, PCF:	..	ASTM C138

Laboratory Test Results

Test Schedule	**11/04/15**	**11/16/15**	**12/14/15**			
Identification	**6A**	**6B**	**6C**			
Diameter, in.	**6.00**					
Length, in.	**12.00**					
Width, in.						
Correction Factor	**1.00**					
Area, in.^{2}	**28.26**					
Ultimate Load, lbs	**600**					
Ultimate Strength, psi	**20**					
Average Strength, psi						
Fracture Type						
Age Tested, days	**16**	**28**	**56**			
Specified Strength, psi						

Specimens not scheduled for testing will be discarded after 28 days

Remarks:

Cc: Logan Medeiros <ldmedeiros@rockridgegeo.com>
Jon Sarmiento <jbsarmiento@rockridgegeo.com>

Reviewed by

Mohammed Faiyaz

Mohammed Faiyaz
Laboratory Manager

ATTACHMENT L

Construction Photos (submitted separately)

ATTACHMENT M

Performance Warranty

Magnus Pacific, LLC
6558 Lonetree Blvd
Rocklin, California 95765
Phone: 916 462 6400
www.magnuspacific.com

November 4, 2015 150019-O004

Adam Lambert
Bay West Development
2 Henry Adams Street, Suite 450
San Francisco, CA 94103
415-509-1441
Adam@baywestdevelopment.com

Subject: **Performance Warranty**
Dublin Apartments – Permeable Reactive Barrier
7544 Dublin Blvd, Dublin, CA

Dear Mr. Lambert:

Magnus Pacific is providing this performance warranty in accordance with Permeable Reactive Barrier Specification 025010, Section 1.9. Magnus Pacific shall warrant that within a 1-year period beginning November 5th 2015 and terminating November 4th 2016, that there will be no permanent decrease in the hydraulic conductivity due to the construction of the PRB (e.g. excavation methods and biopolymer slurry use) and that there will be no differential settlement.

The person of contact at Magnus Pacific for warranty related issues is:

Matthew Marks
Vice President/Regional Manager
Direct: 916-462-6423
Cell: 916-233-7007

amec foster wheeler

ATTACHMENT 2

Selected Construction Photographs

ATTACHMENT 2

SELECTED CONSTRUCTION PHOTOGRAPHS
Dublin Apartments Permeable Reactive Barrier Construction Completion Certification
Former Crown Chevrolet North Parcel
7544 Dublin Boulevard
Dublin, California

Photograph 1 Site preparation and material staging – unloading of sand

Photograph 2 Permeable reactive barrier (PRB) trench excavation

Photograph 3 Biopolymer slurry addition for trench stabilization

Photograph 4 Trench depth quality control measurement

Photograph 5 Preparation of ZVI/sand mixture for placement

Photograph 6 Backfilling of the trench with zero valent iron/sand mixture

Photograph 7 Recirculation and addition of enzyme breaker

Photograph 8 Protective casings for future monitoring well installation

Photograph 9 Backfilling to grade with controlled-density fill (CDF)

Photograph 10 PRB surface conditions following completion of PRB construction