

Project: 13071 Patterson Road

Job No: VSI 7379

Date: 09-14-2015

Location: A

File: 7379A001.BAR Job Number: 1 Date Range: 9/14/2015 - 9/14/2015 Time Range: 07:12 - 16:47 Serial Number: 3089

Peak Amplitudes Seismic (S): 0.1950in/s 4.9530mm/s

Graph Information Duration: 0.0 hr to 9.6 hr Seismic Scale: 1.00in/s (0.250in/s/div) 25.40mm/s (6.350mm/s/div)

Bar Information Bar Sample Interval: 6 Seconds Total Bar Samples: 5741 Number of Bar Samples Shown Here: 5741

Pile Driving Report

Report No: PD7379091415

Project: 13071 Patterson

Job No: VSI 7379

Client: Crescent Foundations

Date: 9-14-2015

Pile Driver: Crescent Foundations

Material: Class 5 treated timber piles 40ft in length.


Equipment: Crawler crane with fixed leads and a number 2 air hammer.

Penetration: Relative to existing fills.

Remarks: Drove 77 piles.

Hrs: 10.5

Technician: KA



Vibration Specialty & Inspection

Pile Driving Log

Project Name: 13071 Patterson Rd (New Orleans) Page 1 of 17
 Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: Kristille Arinder

Pen In Feet	Pile # 4 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 6 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 7 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 8 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 3 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 5 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 9 Butt: CL5 Tip: CL5 Lngth: 40'	
35	0-5	3	4	5	6	6	5	3
30	6-10	9	11	13	15	16	12	8
25	11-15	13	16	18	15	20	16	10
	16	2	3	5	3	6	3	3
	17	2	5	5	4	4	4	3
	18	2	7	5	3	5	2	6
	19	3	6	5	5	5	5	2
20	20	3	4	4	3	3	2	3
	21	4	10	9	7	6	4	5
	22	9	12	9	6	6	5	5
	23	6	7	6	6	6	4	6
	24	6	11	12	8	7	5	6
15	25	10	6	10	12	14	4	6
	26	10	11	10	12	14	17	11
	27	12	11	12	13	12	14	8
	28	14	10	15	16	16	14	12
	29	11	9	13	14	14	15	8
10	30	10	8	12	13	14	10	12
	31	12	10	13	15	15	15	12
	32	14	24R	15	17	18	16	13
	33	13		12	16	18	14	12
	34	12		14	15	24R	12	12
5	35	12		24R	15		15	11
	36	22			24R		16	11
	37	24R					24R	24R
	38							
	39							
0	40							
	41							

Pile Driving Log

Project Name: 13071 Patterson Rd.

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Pile Driver: Crescent

Date: 9-14-15

Hammer Type #2 Airhammer

VSI

Tech: K.A.

Pen In Feet	Pile # 10 Butt: 10 Tip: CLS Lngth: 40'	Pile # 11 Butt: CLS Tip: CLS Lngth: 40'	Pile # 12 Butt: CLS Tip: CLS Lngth: 40'	Pile # 16 Butt: CLS Tip: CLS Lngth: 40'	Pile # 15 Butt: CLS Tip: CLS Lngth: 40'	Pile # 24 Butt: CLS Tip: CLS Lngth: 40'	Pile # 14 Butt: CLS Tip: CLS Lngth: 40'
35	0-5	4	4	4	5	4	4
30	6-10	11	6	11	12	13	10
25	11-15	13	10	15	15	17	14
	16	2	3	3	4	4	3
	17	3	4	4	3	4	4
	18	4	3	3	3	4	4
	19	4	3	4	4	5	3
20	20	3	3	4	4	5	5
	21	5	3	3	4	5	6
	22	7	3	4	4	4	4
	23	7	3	5	4	5	5
	24	6	4	4	4	6	4
15	25	9	4	10	7	5	5
	26	11	11	12	11	8	6
	27	11	10	8	9	18	14
	28	12	7	8	12	16	10
	29	14	11	12	12	12	11
10	30	14	9	10	11	14	11
	31	16	9	13	16	18	16
	32	16	13	16	14	18	11
	33	14	11	13	14	20	17
	34	15	11	13	15	18	16
5	35	15	12	13	13	18	17
	36	24R	24R	24R	24R	24R	24R
	37						24R
	38						
	39						
0	40						
	41						

Pile Driving Log

Page 3 of 17
Date: 9-14-15

Project Name: 13071 Patterson Rd

Pile Driver: Crucent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # 13 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 23 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 21 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 22 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 35 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 2 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # 1 Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	
35	0-5	6	4	5	8	7	5	8
30	6-10	13	12	16	18	15	9	15
25	11-15	18	17	17	19	16	13	15
	16	5	3	5	7	4	4	4
	17	4	3	3	6	3	4	4
	18	4	3	5	6	3	3	4
	19	4	3	4	7	4	3	4
20	20	4	3	3	5	3	3	5
	21	5	4	5	7	5	4	5
	22	5	4	6	6	5	4	4
	23	6	4	6	6	4	4	5
	24	6	6	6	7	4	5	6
15	25	10	5	10	6	5	7	5
	26	15	15	16	14	13	10	14
	27	13	13	18	17	12	10	13
	28	15	12	14	13	15	9	14
	29	12	19	22	23	10	16	18
10	30	13	15	12	14	9	8	14
	31	13	13	18	18	10	12	15
	32	19	20	18	22	18	16	19
	33	17	19	24R	24R	12	12	19
	34	13	18			16	12	19
5	35	12	24R			13	10	24R
	36	24R				17	24R	
	37					24R		
	38							
	39							
0	40							
	41							

Pile Driving Log

Project Name: 13071 Patterson Rd.

Date: 9-14-11

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # 32 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 34 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 36 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 33 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 40 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 43 Butt: CL5 Tip: CL5 Lngth: 40'	Pile # 44 Butt: CL5 Tip: CL5 Lngth: 40'
35	0-5	8	6	4	9	9	5
30	6-10	12	15	17	19	18	10
25	11-15	3	19	15	19	17	14
	16	4	8	4	5	5	4
	17	4	3	5	4	4	3
	18	4	6	4	5	3	4
	19	3	5	4	4	4	3
20	20	3	8	3	3	5	3
	21	4	5	4	4	4	2
	22	4	5	4	4	4	3
	23	4	5	5	5	4	4
	24	4	5	5	7	4	3
	25	4	6	6	5	5	5
15	26	3	7	6	4	5	3
	27	15	12	17	17	8	5
	28	15	18	13	19	12	10
	29	14	13	13	11	12	14
	30	15	16	18	15	16	15
10	31	16	14	12	13	12	11
	32	13	13	14	12	12	19
	33	13	16	20	21	20	15
	34	14	19	19	19	18	17
	35	17	17	16	18	16	13
5	36	24R	17	18	15	13	14
	37		24R	24R	24R	24R	24R
	38						24R
	39						
0	40						
	41						

Pile Driving Log

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Project Name: 13071 Patterson Rd

Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # <u>52</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>45</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>51</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>53</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>54</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>56</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	Pile # <u>55</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>90'</u>	
35	0-5	11	5	5	6	10	6	11
30	6-10	10	5	6	12	16	21	20
25	11-15	17	15	13	14	19	19	22
	16	5	3	3	5	5	5	8
	17	5	3	3	3	5	5	7
	18	5	3	4	3	5	6	5
	19	4	3	5	3	3	6	5
20	20	4	3	3	3	3	5	4
	21	6	4	6	3	5	5	7
	22	6	3	5	5	5	6	7
	23	6	3	6	5	5	6	7
	24	6	3	6	5	6	7	6
15	25	6	5	6	4	4	5	5
	26	7	7	7	6	6	7	15
	27	9	9	9	12	6	15	19
	28	18	9	8	12	15	18	15
	29	14	12	11	12	11	20	16
10	30	11	7	12	10	12	11	14
	31	15	6	13	12	13	15	24R
	32	16	8	10	18	13	18	
	33	19	14	18	15	13	24R	
	34	17	12	24R	14	20		
5	35	14	9		13	14		
	36	24R	12		24R	24R		
	37		24R					
	38							
	39							
0	40							
	41							

Pile Driving Log

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Date: 9-14-11

Project Name: 13071 Patterson Rd

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # <u>65</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>62</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>63</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>64</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>71</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>76</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>68</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	
35	0-5	5	8	6	6	6	8 3	7
30	6-10	13	14	11	17	16	7	14
25	11-15	20	15	15	21	24	8	8
	16	7	3	4	5	7	3	3
	17	3	4	3	5	10	3	3
	18	5	4	3	5	5	3	4
	19	4	5	5	6	6	3	5
20	20	3	3	3	4	7	3	5
	21	4	4	5	6	8	4	4
	22	5	5	4	5	5	4	4
	23	5	5	5	6	4	5	4
	24	7	6	4	7	4	6	6
15	25	6	4	6	5	5	4	6
	26	6	6	6	7	7	6	6
	27	7	8	6	15	15	13	5
	28	19	17	14	21	19	16	14
	29	18	16	18	16	19	10	17
10	30	15	12	13	12	18	8	15
	31	13	13	12	17	16	6	11
	32	15	15	10	20	14	15	11
	33	15	16	14	24R	14	11	17
	34	24R	18	18		18	16	24R
5	35		14	15		14	19	
	36		24R	24R		24R	24R	
	37							
	38							
	39							
0	40							
	41							

Pile Driving Log

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 Date: 9-14-15
 VSI 1
 Tech: K.A.

Project Name: 13071 Patterson Rd

Pile Driver: Crescent

Hammer Type #2 Airhammer

Pen In Feet	Pile # <u>70</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>82</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>69</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>75</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>77</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>81</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>78</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	
35	0-5	7	7	9	9	11	11	11
30	6-10	17	16	14	14	16	19	17
25	11-15	17	15	15	18	18	24	20
	16	7	5	3	3	4	4	3
	17	3	5	4	4	6	6	5
	18	4	8	4	4	4	6	4
	19	4	5	4	4	4	6	4
20	20	5	6	4	4	4	6	6
	21	3	3	4	4	5	5	4
	22	4	5	4	6	5	7	6
	23	5	6	4	6	6	7	6
	24	6	7	6	5	5	7	7
15	25	6	9	6	7	7	10	8
	26	7	8	6	9	9	11	8
	27	13	13	12	7	6	9	6
	28	14	12	16	13	9	21	17
	29	15	15	16	24R	19	24R	17
10	30	17	24R	14		22		17
	31	14		14		9		12
	32	15		15		19		13
	33	16		12		17		24R
	34	15		12		24R		
5	35	24R		15				
	36			24R				
	37							
	38							
	39							
0	40							
	41							

Pile Driving Log

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Project Name: 13071 Patterson Rd

Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # 80 Butt: CLS Tip: CLS Lngth: 40'	Pile # 79 Butt: CLS Tip: CLS Lngth: 40'	Pile # 92 Butt: CLS Tip: CLS Lngth: 40'	Pile # 90 Butt: CLS Tip: CLS Lngth: 40'	Pile # 91 Butt: CLS Tip: CLS Lngth: 40'	Pile # 102 Butt: CLS Tip: CLS Lngth: 40'	Pile # 918 Butt: CLS Tip: CLS Lngth: 40'	
35	0-5	12	8	8	5	11	3	5
30	6-10	23	5	22	10	23	4	6
25	11-15	24	10	25	5	25	9	9
	16	5	3	7	3	5	2	3
	17	7	3	7	3	5	3	4
	18	6	2	6	4	5	3	5
	19	11	3	6	3	5	3	3
20	20	8	2	5	4	5	4	3
	21	4	3	7	3	5	4	4
	22	7	3	8	5	6	3	5
	23	6	3	7	4	5	2	3
	24	6	4	7	4	6	3	7
15	25	7	4	7	6	6	3	9
	26	11	9	7	12	10	4	4
	27	10	7	10	7	15	9	9
	28	14	6	21	7	11	9	10
	29	22	16	11	18	16	9	11
10	30	18	20	21	20	24R	24R	24R
	31	20	15	24R	14			
	32	13	9		5			
	33	19	9		9			
	34	24R	15		21			
5	35		24R		15			
	36				24R			
	37							
	38							
	39							
0	40							
	41							

Pile Driving Log

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Project Name: 13071 Patterson Rd

Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # 101 Butt: CLS Tip: CLS Lngth: 40'	Pile # 99 Butt: CLS Tip: CLS Lngth: 40'	Pile # 100 Butt: CLS Tip: CLS Lngth: 40'	Pile # 106 Butt: CLS Tip: CLS Lngth: 40'	Pile # 107 Butt: CLS Tip: CLS Lngth: 40'	Pile # 17 Butt: CLS Tip: CLS Lngth: 40'	Pile # 18 Butt: CLS Tip: CLS Lngth: 40'	
35	0-5	11	10	9	9	7	12	4
30	6-10	19	19	18	13	10	10	20
25	11-15	24	20	19	19	14	15	21
	16	4	5	4	3	3	4	5
	17	4	6	4	5	4	4	6
	18	4	6	3	4	3	4	6
	19	6	7	5	4	2	6	6
20	20	5	8	4	4	3	11	14
	21	6	9	4	4	3	11	11
	22	5	12	4	5	3	11	9
	23	5	5	4	5	3	13	17
	24	6	6	5	5	2	19	16
15	25	7	7	5	6	4	14	14
	26	9	9	8	6	4	13	13
	27	12	10	15	9	11	12	11
	28	15	12	13	16	8	17	15
	29	17	14	12	15	14	24R	16
10	30	24R	24R	24R	24R	20		16
	31					20		15
	32					16		16
	33					14		15
	34					16		15
5	35					24R		16
	36							24R
	37							
	38							
	39							
0	40							
	41							

Pile Driving Log

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Project Name: 13071 Patterson Rd

Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # <u>19</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>31</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>20</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>25</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>29</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>30</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	Pile # <u>28</u> Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40'</u>	
35	0-5	6	6	3	7	5	6	5
30	6-10	4	8	5	13	12	10	6
25	11-15	6	10	10	17	13	8	8
	16	3	3	3	3	2	3	2
	17	3	4	4	5	3	4	3
	18	3	5	3	3	2	3	3
	19	3	6	3	4	3	4	4
20	20	2	3	5	4	3	3	4
	21	3	4	3	5	4	3	4
	22	5	5	3	4	4	4	4
	23	4	4	2	4	3	4	4
	24	4	4	3	4	4	4	4
15	25	3	5	2	6	4	6	4
	26	8	6	13	11	16	8	5
	27	6	5	9	14	15	10	9
	28	8	6	7	12	10	15	13
	29	10	9	13	12	10	12	12
10	30	9	9	11	13	12	17	10
	31	14	12	12	11	16	13	9
	32	12	12	21	15	15	14	10
	33	12	14	13	15	13	18	24R
	34	12	12	16	14	17	24R	
5	35	12	14	12	13	16		
	36	16	18	24R	24R	24R		
	37	24R	24R					
	38							
	39							
0	40							
	41							

Pile Driving Log

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Project Name: 13071 Patterson Rd (Nans)

Date: 9-14-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile #27 Butt: <u>WS</u> Tip: <u>WS</u> Lngth: <u>40</u>	Pile #20 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>	Pile #41 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>	Pile #37 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>	Pile #42 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>	Pile #40 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>	Pile #39 Butt: <u>CLS</u> Tip: <u>CLS</u> Lngth: <u>40</u>
35	0-5	3	5	3	3	3	3
30	6-10	8	14	10	10	11	12
25	11-15	13	16	13	11	15	14
	16	3	4	4	4	3	3
	17	3	4	4	3	3	3
	18	4	4	3	3	4	4
	19	3	4	3	3	3	3
20	20	2	4	3	3	3	3
	21	3	5	5	4	3	5
	22	3	5	5	4	4	5
	23	4	5	5	4	3	4
	24	5	5	4	6	4	5
15	25	5	17	3	5	8	5
	26	14	12	10	12	9	10
	27	14	12	12	13	9	10
	28	12	17	12	12	13	12
	29	7	13	13	17	11	14
10	30	12	12	14	17	12	12
	31	12	12	15	12	12	12
	32	20	18	17	18	10	16
	33	18	18	16	17	9	24R
	34	15	19	17	13	5	10
5	35	11	15	12	12	7	12
	36	24R	24R	24R	24R	24R	24R
	37						
	38						
	39						
0	40						
	41						

VIBRATION MONITORING

Project: 13071 Patterson
Job No: VSI 7379
Client: Crescent Foundations
Contractor: Crescent Foundations

Report No: VM7379091515

Date: 9-15-2015

Scope

This report covers an investigation of vibration intensity determined by electronic measurement of peak-particle -velocity.

The instrument used was a Mini Seis monitor manufactured by White Industrial Seismology.

The device directly measures the vector sum particle velocity and records it into memory, which is then downloaded and printed as part of the report.

The trace is then analyzed to determine the relative intensity of the vibration and these are compared to the distance to and/or from the vibration source.

Vibration source: (material and equipment)

Crawler type crane with fixed leads using a number 2 Vulcan air hammer to drive treated timber piles.

Hours: 8.0

KA
Technician


Vibration Specialty & Inspection, LLC

Vibration Monitoring:

Date: 9-15-2015

Job No: VSI 7379

Monitor Location:

- A) Sensor located at 13091 Patterson approximately 350ft from the street and 60ft from the property line.

Remarks:

The following data is a record of the highest reading at each location.

Job Number	Monitor Location	Field Data Description	Distance	Max PPV (In/Sec.)
002	A	Driving piles	120' - 170'	0.0325
Remarks:				

Technical studies have shown that velocities of 2.0 in. /sec. and 4.0 in. /sec. can be considered as the threshold of damage to typical well built residences and typical well built commercial buildings respectively. This reports states only the vibration velocities observed.

Project: 13071 Patterson Road

Job No: VSI 7379

Date: 09-15-2015

Location: A

File: 7379A002.BAR Job Number: 2 Date Range: 9/15/2015 - 9/15/2015 Time Range: 07:02 - 13:23 Serial Number: 3089

Peak Amplitudes Seismic (S): 0.03225in/s 0.8255mm/s

Graph Information Duration: 0.0 hr to 6.3 hr Seismic Scale: 1.00in/s (0.250in/s/div) 25.40mm/s (6.350mm/s/div)

Bar Information Bar Sample Interval: 6 Seconds Total Bar Samples: 3802 Number of Bar Samples Shown Here: 3802



Pile Driving Report

Project: 13071 Patterson

Report No: PD7379091515

Client: Crescent Foundations

Job No: VSI 7379

Pile Driver: Crescent Foundations

Date: 9-15-2015

Material: Class 5 treated timber piles 40ft in length.

Equipment: Crawler crane with fixed leads and a number 2 air hammer.

Penetration: Relative to existing fills.

Remarks: Drove 39 piles.

Hrs: 8.0

Technician: KA


Vibration Specialty & Inspection

Pile Driving Log

Page 12 of 17

Project Name: 13071 Patterson Rd

Date: 9-14-15/9-15-15

Pile Driver: Crescent

VSI

Hammer Type: #2 Airhammer

Tech: K.A

Pen In Feet	Pile # 38 Butt: CUS Tip: CUS Lngth: 40'	Pile # 50 Butt: CUS Tip: CUS Lngth: 40'	Pile # 51 Butt: CUS Tip: CUS Lngth: 40'	Pile # 47 Butt: CUS Tip: CUS Lngth: 40'	Pile # 49 Butt: CUS Tip: CUS Lngth: 40'	Pile # 48 Butt: CUS Tip: CUS Lngth: 40'	Pile # 60 Butt: CUS Tip: CUS Lngth: 40'
35	0-5	8	6	3	6	9	7
30	6-10	9	13	11	18	15	12
25	11-15	13	19	14	18	18	15
	16	2	3	3	4	4	4
	17	3	5	3	5	4	4
	18	3	4	2	4	4	3
	19	3	5	3	4	3	4
20	20	4	5	2	6	2	3
	21	3	4	2	6	3	5
	22	4	6	3	6	4	4
	23	5	5	4	6	6	7
	24	8	4	5	3	5	5
15	25	8	6	3	4	4	5
	26	9	11	9	9	13	12
	27	17	15	9	13	16	14
	28	12	17	11	13	14	15
	29	7	10	10	11	13	12
10	30	7	13	8	13	7	6
	31	12	17	12	16	9	10
	32	15	13	13	13	17	14
	33	12	13	14	17	13	14
	34	12	24R	24R	17	24R	17
5	35	11			14		16
	36	24R			24R		24R
	37						
	38						
	39						
0	40						
	41						

Pile Driving Log

Page 13 of 17
 Date: 9-15-15
 VSI
 Tech: K.A.

Project Name: 13071 Patterson Rd

Pile Driver: Crescent

Hammer Type #2 Airhammer

Pen In Feet	Pile # 116 Butt: CLS Tip: CLS Lngth: 40'	Pile # 58 Butt: CLS Tip: CLS Lngth: 40'	Pile # 59 Butt: CLS Tip: CLS Lngth: 40'	Pile # 61 Butt: CLS Tip: CLS Lngth: 40'	Pile # 66 Butt: CLS Tip: CLS Lngth: 40'	Pile # 67 Butt: CLS Tip: CLS Lngth: 40'	Pile # 74 Butt: CLS Tip: CLS Lngth: 40'	
35	0-5	2	4	7	5	5	7	3
30	6-10	6	13	9	9	10	12	10
25	11-15	7	17	12	11	11	18	12
	16	2	5	3	3	3	4	3
	17	2	4	3	3	4	4	3
	18	2	4	4	3	3	4	2
	19	2	3	3	3	3	4	3
20	20	2	3	3	2	4	3	3
	21	2	5	5	3	5	4	3
	22	2	4	5	3	3	4	3
	23	2	6	7	4	3	5	3
	24	3	6	8	8	4	7	3
15	25	5	3	5	5	6	6	4
	26	5	8	9	5	8	6	7
	27	3	15	16	13	12	9	9
	28	11	16	18	16	15	21	7
	29	12	14	20	17	16	18	13
10	30	11	9	12	10	12	14	13
	31	10	10	20	8	10	13	13
	32	9	13	24R	9	11	11	14
	33	8	16		12	13	16	8
	34	12	14		17	17	24R	11
5	35	14	14		13	24R		14
	36	12	24R		24R			24R
	37	24R						
	38							
	39							
0	40							
	41							

Pile Driving Log

Page 14 of 17

Project Name: 13071 Patterson Rd

Date: 9-15-15

Pile Driver: Crescent

VSI

Hammer Type #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # <u>81</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>72</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>73</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>86</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>85</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>84</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	Pile # <u>83</u> Butt: <u>CL5</u> Tip: <u>CL5</u> Lngth: <u>40'</u>	
35	0-5	6	3	4	3	9	4	3
30	6-10	15	8	17	11	16	15	14
25	11-15	18	15	17	18	19	18	17
	16	4	4	4	5	3	5	4
	17	5	4	4	4	4	5	4
	18	4	3	4	4	4	4	4
	19	5	3	4	4	5	5	3
20	20	3	3	4	4	3	4	5
	21	5	4	6	4	5	6	7
	22	5	4	6	5	6	6	5
	23	6	7	5	4	5	5	5
	24	5	3	6	5	5	6	6
15	25	5	8	5	4	5	7	8
	26	7	8	11	8	12	12	14
	27	13	6	8	13	15	15	15
	28	12	13	13	11	14	13	16
	29	14	14	15	17	20	24R	16
10	30	24R	18	17	17	24R		16
	31		15	16	24R			16
	32		9	10				15
	33		14	15				10
	34		15	17				10
5	35		24R	24R				24R
	36							
	37							
	38							
	39							
0	40							
	41							

Pile Driving Log

Page 15 of 17

Project Name: 13071 Patterson Rd

Date: 9-15-15

Pile Driver: Crescent

VSI

Hammer Type: #2 Air hammer

Tech: K.A.

Pen In Feet	Pile # 88 Butt: CLS Tip: CLS Lngth: 40'	Pile # 95 Butt: CLS Tip: CLS Lngth: 40'	Pile # 89 Butt: CLS Tip: CLS Lngth: 40'	Pile # 105 Butt: CLS Tip: CLS Lngth: 40'	Pile # 96 Butt: CLS Tip: CLS Lngth: 40'	Pile # 94 Butt: CLS Tip: CLS Lngth: 40'	Pile # 93 Butt: CLS Tip: CLS Lngth: 40'
35	0-5	6	4	5	5	5	5
30	6-10	15	14	15	12	15	11
25	11-15	13	15	14	15	16	20
	16	5	4	4	4	4	5
	17	5	3	4	4	4	4
	18	5	4	3	5	4	5
	19	4	3	4	4	4	6
20	20	5	3	6	3	3	3
	21	5	5	7	6	4	5
	22	4	4	7	4	4	6
	23	5	4	4	5	3	4
	24	4	4	7	5	4	5
15	25	4	4	5	3	5	4
	26	7	6	7	6	5	7
	27	8	10	9	6	7	10
	28	7	14	15	8	16	17
	29	6	15	11	14	10	11
10	30	9	24R	24R	9	19	24R
	31	19			17	24R	
	32	24R			18		
	33				17		
	34				15		
5	35				12		
	36				24R		
	37						
	38						
	39						
0	40						
	41						

Pile Driving Log

Page 16 of 17
Date: 9-15-15

Project Name: 13071 Patterson Rd

Pile Driver: Crescent

VSI

Hammer Type: #2 Airhammer

Tech: K.A.

Pen In Feet	Pile # 97 Butt: CLS Tip: CLS Lngth: 40'	Pile # 115 Butt: CLS Tip: CLS Lngth: 40'	Pile # 114 Butt: CLS Tip: CLS Lngth: 40'	Pile # 103 Butt: CLS Tip: CLS Lngth: 40'	Pile # 104 Butt: CLS Tip: CLS Lngth: 40'	Pile # 111 Butt: CLS Tip: CLS Lngth: 40'	Pile # 113 Butt: CLS Tip: CLS Lngth: 40'
35 0-5	5	5	3		7	8	4
30 6-10	14	10	4	1	14	14	10
25 11-15	19	13	3	3	20	16	15
16	6	4	1	2	6	4	3
17	6	3	2	2	5	4	2
18	7	4	2	2	5	3	1
19	6	3	2	2	5	5	3
20 20	6	3	2	1	4	3	4
21	7	5	2	2	6	6	5
22	6	3	2	2	6	5	4
23	6	4	2	3	6	4	4
24	7	4	3	1	8	6	5
15 25	5	4	4	2	5	4	5
26	10	7	5	2	10	12	7
27	12	6	9	9	17	10	11
28	10	11	10	9	17	20	17
29	24R	12	24R	12	24R	24R	24R
10 30		24R		17			
31				17			
32				15			
33				8			
34				8			
5 35				24R			
36							
37							
38							
39							
0 40							
41							

Pile Driving Log

Project Name: 13071 Patterson Rd

Page 17 of 17

Pile Driver: Crescent

Date: 9-15-15

Hammer Type: #2 AirHammer

VSI

Tech: KA.

Pen In Feet	Pile # 108 Butt: CLS Tip: CLS Lngth: 40'	Pile # 112 Butt: CLS Tip: CLS Lngth: 40'	Pile # 110 Butt: CLS Tip: CLS Lngth: 40'	Pile # 109 Butt: CLS Tip: CLS Lngth: 40'	Pile # Butt: CLS Tip: CLS Lngth: 40'	Pile # Butt: CLS Tip: CLS Lngth: 40'	Pile # Butt: CLS Tip: CLS Lngth: 40'
35 30 25	0-5	12	4	5	8		
	6-10	17	11	13	17		
	11-15	16	13	14	20		
	16	4	3	3	4		
	17	4	3	3	4		
	18	3	3	3	5		
	19	4	3	3	5		
20	20	2	2	4	4		
	21	4	3	4	5		
	22	5	3	5	6		
	23	5	3	4	6		
	24	5	4	5	5		
15	25	4	5	4	5		
	26	6	5	8	10		
	27	14	19	8	9		
	28	11	17	14	15		
	29	24R	24R	24R	14		
10	30				24R		
	31						
	32						
	33						
	34						
5	35						
	36						
	37						
	38						
	39						
0	40						
	41						